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

COMPREHENSIVE ASSESSMENT OF COASTAL HABITAT

COASTAL HABITAT STUDY NUMBER 1A
FINAL REPORT

VOLUME III

APPENDIX C
Parts 3 and 4

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Table C-3.2. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	1.01	1.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.25	0.25					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	6.34	6.34	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	5.67	5.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.01	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		3.01	3.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.01	0.01	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.47	0.47	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	15.28	14.86	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	351.01	351.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		91.69	91.58					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Genera not separated.

Table C-3.2. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	1.01	1.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.25	0.25					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	3.00	3.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	5.67	5.67	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.01	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		2.17	2.17					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.01	0.01	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.47	0.47	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	15.28	14.86	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	351.01	351.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		91.69	91.58					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha melagonium (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	1.01	1.00	-		---	0	--	--	3	1.01	1.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.25	0.25					--	--		0.25	0.25					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.29	0.15	-		---	0	--	--	3	0.29	0.15	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	3.51	3.51	-		---	0	--	--	2	3.51	3.51	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.95	0.91					--	--		0.95	0.91					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Chaetomorpha melagonium not included.

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

Table C-3.2. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

Site Pair	MVD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Gomontia polyrhiza (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	3.00	3.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	5.67	5.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.01	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		2.17	2.17					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.01	0.01	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.46	0.46	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	14.99	14.78	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	347.50	347.49	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		90.74	90.68					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	3.33	3.33	-		---	0	--	--	3	3.33	3.33	-		---	0	--	--	3	3.33	3.33	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.83	0.83					--	--		0.83	0.83					--	--		0.83	0.83			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.2. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

Site Pair	MVD	Enteromorpha clathrata (AE)								Enteromorpha intestinalis (AE)																			
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

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

Table C-3.3. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Total Phaeophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group - Bladed Browns N	C	SE	N	O	SE	CV	D	P	Fucus gardneri (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	102.33	65.36	-		---	0	--	--	3	102.33	65.36	-		---	0	--	--	3	102.33	65.36	-		---
601C/601	1	0	--	--	3	900.90	899.55	-		---	0	--	--	3	900.90	899.55	-		---	0	--	--	3	900.90	899.55	-		---
598C/598	1	0	--	--	3	4.33	4.33	-		---	0	--	--	3	4.33	4.33	-		---	0	--	--	3	4.33	4.33	-		---
1522C/1522	1	0	--	--	3	934.38	860.85	-		---	0	--	--	3	915.37	842.86	-		---	0	--	--	3	915.37	842.86	-		---
Habitat Means			--	--		485.49	457.52					--	--		480.73	453.02					--	--		480.73	453.02			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	672.67	498.68	-		---	0	--	--	3	672.67	498.68	-		---	0	--	--	3	672.67	498.68	-		---
601C/601	2	0	--	--	3	132.67	126.18	-		---	0	--	--	3	132.67	126.18	-		---	0	--	--	3	132.67	126.18	-		---
598C/598	2	0	--	--	3	421.67	408.24	-		---	0	--	--	3	421.67	408.24	-		---	0	--	--	3	421.67	408.24	-		---
1522C/1522	2	0	--	--	3	548.69	277.78	-		---	0	--	--	3	316.67	303.20	-		---	0	--	--	3	316.67	303.20	-		---
Habitat Means			--	--		443.92	327.72					--	--		385.92	334.07					--	--		385.92	334.07			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	182.34	155.09	-		---	0	--	--	3	182.33	155.09	-		---	0	--	--	3	182.33	155.09	-		---
601C/601	3	0	--	--	3	195.41	128.25	-		---	0	--	--	3	149.67	143.22	-		---	0	--	--	3	149.67	143.22	-		---
598C/598	3	0	--	--	3	1767.72	350.07	-		---	0	--	--	3	1714.00	355.58	-		---	0	--	--	3	1714.00	355.58	-		---
1522C/1522	3	0	--	--	2	1379.36	1242.35	-		---	0	--	--	2	1315.35	1306.35	-		---	0	--	--	2	1315.35	1306.35	-		---
Habitat Means			--	--		881.21	468.94					--	--		840.34	490.06					--	--		840.34	490.06			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---

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

Site Pair	MVD	Petalonia fascia (AE) N	C	SE	N	O	SE	CV	D	P	Total Punctaria (AE) N	C	SE	N	O	SE	CV	D	P	Punctaria spp. (AE) N	C	SE	N	O	SE	CV	D	P
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---

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

Table C-3.3. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

Site Pair	MVD	Punctaria lobata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Cystoseira geminata (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.01	0.01	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	45.41	45.41	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		11.35	11.35					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	45.41	45.41	-		---	0	--	--	3	45.41	45.41	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		11.35	11.35					--	--		11.35	11.35					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.3. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

Site Pair	MVD	Eudesme virescens (AE) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	18.35	18.33	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		4.59	4.58			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	167.34	167.34	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		41.84	41.84			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.01	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	53.72	35.21	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.01	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		13.43	8.80			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

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

Site Pair	MVD	Ectocarpus sp. (AE) N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.01	0.00	-		---	0	--	--	3	18.34	18.33	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		4.58	4.58			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	167.33	167.33	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		41.83	41.83			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.01	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	53.72	35.21	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.01	0.01	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		13.43	8.80			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.3. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.67	0.67	-		---	0	--	--	3	0.67	0.67	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.17	0.17					--	--		0.17	0.17			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	64.67	64.66	-		---	0	--	--	3	58.00	58.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		16.17	16.17					--	--		14.50	14.50			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.33	0.33	-		---	0	--	--	3	0.33	0.33	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.01	0.01	-		---	0	--	--	2	64.00	64.00	-		---	0	--	--	2	55.00	55.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		16.08	16.08					--	--		13.83	13.83			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia fungiformis (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	6.67	6.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		1.67	1.67					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	9.00	9.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		2.25	2.25					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.4. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Constantinea simplex (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.01	0.01	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	5.34	4.37	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		1.34	1.10					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	2.67	2.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.01	0.01	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.33	0.33	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	35.02	35.01	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		9.51	9.50					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	4.30	2.32	-		---	0	--	--	3	0.67	0.67	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	144.47	143.77	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	19.67	19.67	-		---	0	--	--	3	5.33	5.33	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	119.17	111.87	-		---	0	--	--	2	4.50	4.50	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		71.90	69.41					--	--		2.63	2.63					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Gigartinaceae Group (P) (a)								Total Membranoptera (A)								Membranoptera weeksiae (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.33	0.33	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	5.33	5.33	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	4.50	4.50	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		2.54	2.54					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Chondrus, Iridaea, Mastocarpus and Microglossum.

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

Table C-3.4. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

Site Pair	MVD	Total Palmaria (A) N	C	SE	N	O	SE	CV	D	P	Palmaria spp. (A) N	C	SE	N	O	SE	CV	D	P	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.33	0.33	-		---	0	--	--	3	0.33	0.33	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.08	0.08					--	--		0.08	0.08					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	

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

Site Pair	MVD	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P
[illegible]	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	

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

Table C-3.4. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Rhodymenia pertusa (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.01	0.01	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	5.34	4.37	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		1.34	1.10					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	2.67	2.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.33	0.33	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	35.00	35.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		9.50	9.50					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	1.77	1.18	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	144.00	144.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	14.33	14.33	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	109.66	102.36	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		67.44	65.47					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.4. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

Site Pair	MVD	Dumontia contorta (AE) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.33	0.33	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.08	0.08			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.01	0.01	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.01	0.01	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	

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

Site Pair	MVD	Microcladia borealis (A) N	C	SE	N	O	SE	CV	D	P	Nemalion helminthoides (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	*0.00*	*0.00*	-		---	0	--	--	3	*0.00*	0.00	-		---	0	--	--	3	5.34	4.37	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		1.34	1.09			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	2.67	2.67	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	*3*	*0.00*	*0.00*	-		---	*0*	--	--	3	*0.00*	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	35.00	35.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		9.42	9.42			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	1.10	0.59	-		---
601C/601	3	*0*	--	--	*3*	*0.00*	*0.00*	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	144.00	144.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	8.67	8.67	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	109.65	102.35	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		65.85	63.90			
Fisher's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	

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

Table C-3.4. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

Site Pair	MVD	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	5.34	4.37	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		1.34	1.09					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	2.67	2.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	35.00	35.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		9.42	9.42					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	1.10	0.59	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	144.00	144.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	8.67	8.67	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	109.65	102.35	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		63.69	61.73					--	--		2.17	2.17					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---

(b) Neorhodomela larix not included.

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

Site Pair	MVD	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.01	0.01	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.67	0.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	1.86	1.04	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.47	0.47	-		---
598C/598	3	0	--	--	3	5.67	5.67	-		---	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	2.01	2.01	-		---
Habitat Means			--	--		1.58	1.58					--	--		0.00	0.00					--	--		1.08	0.88			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---

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

Table C-3.4. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

Site Pair	MVD	Antithamnion/Antithamnionella (A) (b) N	C	SE	N	O	SE	CV	D	P	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Genera not separated.

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

Site Pair	MVD	Ceramium sp. (A) N	C	SE	N	O	SE	CV	D	P	Gloiosiphonia capillaris (A) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.01	0.01	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	1.85	1.04	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.47	0.47	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	2.01	2.01	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		1.08	0.88			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.4. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

Site Pair	MVD	Scagelia/Hollenbergia (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.01	0.01	-		---	0	--	--	2	0.01	0.01	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Genera not separated.

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

Site Pair	MVD	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Calcified Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.01	0.01	-		---	0	--	--	2	3.00	3.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.75	0.75			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.4. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. August 1989. (Continued.)

		Articulate Coralline Algae (A)								Clathromorphum reclinatum (P)																			
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
598C/598	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
598C/598	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
1522C/1522	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
453C/453	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
601C/601	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
598C/598	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
1522C/1522	3	0	--	--	2	3.00	3.00	-		---	0	--	--	2	0.00	0.00	-		---									
Habitat Means			--	--		0.75	0.75					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

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

Table C-3.5. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. May 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)							Total Algae							Perennials (P)						
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
4825C/1424	1	6	1.50	0.76	6	2.67	1.23	0.5	-	0.439	6	1185.69	581.35	6	148.34	79.60	0.6	+	0.951	6	1185.47	581.40	6	137.12	73.13	0.6	+	0.737
453C/453	1	6	5.00	1.26	6	2.33	1.28	0.3	-	0.170	6	2163.16	737.84	6	635.29	410.60	0.4	+	0.101	6	2156.40	737.88	6	626.43	409.50	0.4	+	0.100
601C/601	1	6	1.83	1.14	5	2.20	1.43	0.6	-	0.843	6	755.85	677.93	5	0.66	0.40	1.4	+	0.413	6	755.84	677.93	5	0.62	0.38	1.4	+	0.410
598C/598	1	6	0.83	0.83	6	2.17	1.25	0.7	-	0.396	6	1.17	1.17	6	40.64	38.23	1.3	-	0.245	6	0.05	0.05	6	38.60	36.36	1.3	-	0.171
1522C/1522	1	5	0.60	0.24	6	5.00	1.21	0.3	-	0.014	5	481.70	473.54	6	613.55	249.05	0.7	-	0.801	5	481.70	473.54	6	560.63	232.29	0.7	-	0.878
Habitat Means			1.95	0.85		2.87	1.28		-			917.51	494.37		287.70	155.58		+			915.89	494.16		272.68	150.33		+	
Fisher's		Power	---		Power-50%		---	P-value		0.054	Power	0.103		Power-50%		0.198	P-value		0.291	Power	0.072		Power-50%		0.072	P-value		0.253
Stouffer's		Power	0.071		Power-50%		0.580	P-value		0.276	Power	0.041		Power-50%		0.212	P-value		0.455	Power	0.009		Power-50%		0.200	P-value		0.494
4825C/1424	2	5	6.40	1.54	6	8.67	2.70	0.3	-	0.509	5	3261.06	954.90	6	1185.31	461.89	0.3	-	0.068	5	3096.40	897.71	6	984.62	378.34	0.3	+	0.046
453C/453	2	6	8.17	1.19	6	6.50	2.26	0.2	+	0.529	6	2169.06	902.65	6	647.13	342.68	0.5	+	0.146	6	2105.79	890.04	6	622.64	326.51	0.5	+	0.149
601C/601	2	6	3.50	0.72	6	4.50	1.20	0.2	-	0.492	6	2574.30	937.35	6	919.88	518.67	0.4	-	0.154	6	2561.00	936.39	6	915.94	518.59	0.4	+	0.155
598C/598	2	6	3.00	1.21	6	3.83	1.58	0.4	-	0.684	6	232.00	201.20	6	1571.58	769.08	0.6	-	0.123	6	231.04	201.36	6	1565.00	765.49	0.6	-	0.123
1522C/1522	2	6	4.83	1.87	4	10.25	2.14	0.3	-	0.097	6	1260.46	602.84	4	3785.16	1254.18	0.3	-	0.077	6	1229.49	574.14	4	2956.63	1181.83	0.4	-	0.181
Habitat Means			5.18	1.31		6.75	1.98		-			1899.37	719.79		1621.81	669.30		+			1844.74	699.93		1408.97	634.15		+	
Fisher's		Power	0.242		Power-50%		0.950	P-value		0.158	Power	---		Power-50%		---	P-value		0.067x	Power	---		Power-50%		---	P-value		0.052
Stouffer's		Power	0.061		Power-50%		0.885	P-value		0.282	Power	0.025		Power-50%		0.274	P-value		0.583	Power	0.066		Power-50%		0.335	P-value		0.541
4825C/1424	3	5	13.80	2.52	6	16.17	2.60	0.2	-	0.535	5	3827.34	833.78	6	1370.18	486.18	0.3	+	0.026	5	3390.35	799.51	6	749.77	576.42	0.3	+	0.023
453C/453	3	6	12.67	3.15	3	3.33	1.67	0.4	+	0.089	6	2284.48	606.19	3	689.44	606.42	0.4	+	0.145	6	2056.25	536.21	3	688.90	606.08	0.4	+	0.164
601C/601	3	5	11.40	2.84	6	10.17	1.96	0.2	+	0.722	5	2447.57	1182.66	6	2170.82	888.26	0.4	+	0.853	5	1744.20	1075.00	6	1869.59	911.32	0.5	-	0.931
598C/598	3	6	7.83	3.06	6	11.50	2.69	0.3	-	0.390	6	1720.19	918.19	6	1225.33	397.23	0.5	+	0.632	6	1521.23	813.64	6	1007.94	341.59	0.5	-	0.574
1522C/1522	3	5	8.20	1.24	1	14.00	--	-	-	---	5	1367.84	275.96	1	1579.05	--	-	-	---	5	1314.78	268.32	1	1459.04	--	-	-	---
Habitat Means			10.78	2.56		11.03	2.23		+			2329.49	763.36		1406.96	594.52		+			2005.36	698.54		1155.05	608.85		+	
Fisher's		Power	0.042		Power-50%		0.673	P-value		0.317 y	Power	---		Power-50%		---	P-value		0.022	Power	---		Power-50%		---	P-value		0.024
Stouffer's		Power	0.010		Power-50%		0.624	P-value		0.407	Power	---		Power-50%		---	P-value		0.063	Power	---		Power-50%		---	P-value		0.066

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

		Annuals (A)							Ephemerals (AE)													
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
4825C/1424	1	6	0.22	0.14	6	11.22	9.31	1.2	-	0.389	6	0.15	0.13	6	10.29	9.43	1.3	-	0.674									
453C/453	1	6	6.76	4.03	6	8.86	8.38	0.8	-	0.827	6	5.42	4.05	6	6.50	6.50	0.9	-	0.890									
601C/601	1	6	0.01	0.01	5	0.04	0.02	0.7	-	0.328	6	0.01	0.01	5	0.03	0.02	0.8	-	0.351									
598C/598	1	6	1.12	1.12	6	2.04	1.88	1.0	-	0.683	6	0.01	0.01	6	1.92	1.90	1.4	-	0.359									
1522C/1522	1	5	0.00	0.00	6	52.92	30.61	0.9	-	0.144	5	0.00	0.00	6	43.27	26.11	0.9	-	0.159									
Habitat Means			1.62	1.06		15.01	10.04		-			1.12	0.84		12.40	8.79		-										
Fisher's		Power	---		Power-50%		---	P-value		0.098	Power	0.120		Power-50%		0.084	P-value		0.106	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.230		Power-50%		0.233	P-value		0.140	Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		
4825C/1424	2	5	164.66	91.16	6	200.69	91.65	0.5	-	0.789	5	123.98	78.73	6	181.60	86.48	0.5	-	0.640									
453C/453	2	6	63.28	35.59	6	24.50	18.41	0.6	+	0.356	6	33.52	24.08	6	5.16	2.35	0.9	+	0.246									
601C/601	2	6	13.30	13.15	6	3.94	1.86	1.1	+	0.846	6	12.10	11.95	6	3.04	1.33	1.1	+	0.698									
598C/598	2	6	0.96	0.85	6	6.58	6.35	1.2	-	0.773	6	0.96	0.85	6	6.43	6.30	1.2	-	0.875									
1522C/1522	2	6	30.96	30.86	4	828.53	402.29	0.5	-	0.035	6	28.81	28.76	4	811.89	402.29	0.5	-	0.027									
Habitat Means			54.63	34.32		212.85	104.11		-			39.87	28.87		201.62	99.75		-										
Fisher's		Power	0.308		Power-50%		0.118	P-value		0.204	Power	0.245		Power-50%		0.096	P-value		0.189	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.187		Power-50%		0.187	P-value		0.434	Power	0.139		Power-50%		0.176	P-value		0.524	Power	---		Power-50%		---	P-value		
4825C/1424	3	5	436.99	222.21	6	620.42	190.41	0.4	-	0.544	5	391.66	191.26	6	440.80	185.15	0.5	-	0.859									
453C/453	3	6	228.23	87.55	3	0.54	0.35	0.7	-	0.187	6	132.07	56.64	3	0.50	0.32	0.8	-	0.204									
601C/601	3	5	703.37	595.08	6	301.23	143.27	0.8	-	0.491	5	629.36	581.64	6	265.52	145.08	0.9	-	0.524									
598C/598	3	6	198.96	111.80	6	217.39	110.28	0.5	-	0.909	6	168.20	103.93	6	198.96	99.72	0.6	-	0.835									
1522C/1522	3	5	53.06	28.00	1	120.01	--	-	-	---	5	44.81	24.21	1	112.94	--	-	-	---									
Habitat Means			324.12	208.93		251.92	111.08		+			273.22	191.54		203.74	107.57		+										
Fisher's		Power	0.054		Power-50%		0.150	P-value		0.310	Power	0.052		Power-50%		0.099	P-value		0.306	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.098		Power-50%		0.194	P-value		0.242	Power	0.050		Power-50%		0.156	P-value		0.258	Power	---		Power-50%		---	P-value		

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

Table C-3.6. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	8.99	8.98	1.4	-	0.316	6	0.00	0.00	6	0.01	0.01	1.0	-	0.479	6	0.00	0.00	6	0.01	0.01	1.4	-	0.363
453C/453	1	6	1.28	1.08	6	6.44	6.43	1.2	-	0.291	6	1.12	1.10	6	0.00	0.00	1.4	+	0.075	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.01	0.00	5	0.02	0.02	0.8	-	0.723	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.24	0.21	1.3	-	0.366	6	0.00	0.00	6	0.20	0.20	1.4	-	0.399	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	4.85	1.86	0.6	-	0.048	5	0.00	0.00	6	1.35	1.33	1.5	-	0.357	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.26	0.22		4.11	3.50		-			0.23	0.22		0.31	0.31		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.025	Power	0.002		Power-50%		0.006	P-value		0.440 x	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		0.145	P-value		0.029	Power	0.004		Power-50%		0.075	P-value		0.584	Power	---		Power-50%		---	P-value		0.450
4825C/1424	2	5	2.10	1.15	6	12.95	6.86	0.7	-	0.531	5	1.57	1.06	6	10.10	6.72	0.9	-	0.587	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363
453C/453	2	6	26.39	24.17	6	1.66	1.02	1.2	+	0.285	6	8.02	6.93	6	0.11	0.07	1.2	+	0.296	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
601C/601	2	6	0.13	0.12	6	2.17	1.26	0.8	-	0.370	6	0.00	0.00	6	0.29	0.14	0.7	-	0.034	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.03	0.02	6	0.14	0.13	1.2	-	0.953	6	0.02	0.02	6	0.00	0.00	1.0	<	0.266	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
1522C/1522	2	6	15.48	15.47	4	17.70	7.28	0.8	-	0.915	6	0.00	0.00	4	8.77	8.18	1.0	-	0.045	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			8.82	8.18		6.92	3.31		-			1.92	1.60		3.86	3.02		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.311		Power-50%		0.146	P-value		0.497 y	Power	---		Power-50%		---	P-value		0.043	Power	---		Power-50%		---	P-value		0.223
Stouffer's		Power	0.143		Power-50%		0.250	P-value		0.581	Power	0.016		Power-50%		0.219	P-value		0.669	Power	---		Power-50%		---	P-value		0.094
4825C/1424	3	5	132.25	77.95	6	170.40	94.28	0.6	-	0.769	5	70.82	34.94	6	35.55	11.89	0.5	-	0.329	5	0.00	0.00	6	0.05	0.05	1.5	-	0.813
453C/453	3	6	47.09	23.22	3	0.10	0.06	1.0	+	0.150	6	30.72	17.58	3	0.03	0.03	1.1	+	0.190	6	0.00	0.00	3	0.03	0.03	0.9	-	0.423
601C/601	3	5	226.99	182.45	6	275.40	139.85	0.6	-	0.835	5	19.03	11.07	6	159.88	131.52	1.1	-	0.322	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	116.97	73.45	6	25.29	9.44	0.7	+	0.736	6	4.86	2.49	6	16.02	8.11	0.6	-	0.218	6	0.00	0.00	6	0.00	0.00	1.1	-	0.664
1522C/1522	3	5	28.01	22.56	1	42.04	--	-	-	---	5	23.56	23.26	1	36.86	--	-	-	---	5	0.00	0.00	1	0.23	--	-	-	---
Habitat Means			110.26	75.93		102.65	60.91		+			29.80	17.87		49.67	37.89		+			0.00	0.00		0.06	0.02		-	
Fisher's		Power	0.079		Power-50%		0.096	P-value		0.323	Power	0.008		Power-50%		0.082	P-value		0.350 y	Power	---		Power-50%		---	P-value		0.386
Stouffer's		Power	0.154		Power-50%		0.146	P-value		0.169	Power	0.008		Power-50%		0.121	P-value		0.642	Power	---		Power-50%		---	P-value		0.208

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	1.12	1.10	6	0.00	0.00	1.4	+	0.075	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.20	0.20	1.4	-	0.399	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	1.35	1.33	1.5	-	0.357	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.23	0.22		0.31	0.31		.			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		0.007	P-value		0.271 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.012		Power-50%		0.090	P-value		0.378	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	1.57	1.06	6	3.86	3.17	0.9	-	0.543	5	0.00	0.00	6	6.23	6.23	1.6	-	0.363	5	0.00	0.00	6	3.58	3.58	1.6	-	0.363
453C/453	2	6	8.02	6.93	6	0.10	0.07	1.2	+	0.264	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
601C/601	2	6	0.00	0.00	6	0.29	0.14	0.7	-	0.034	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.02	0.02	6	0.00	0.00	1.1	+	0.220	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	8.77	8.18	1.0	-	0.045	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			1.92	1.60		2.61	2.31		-			0.00	0.00		1.25	1.25		-			0.00	0.00		0.72	0.72		-	
Fisher's		Power	---		Power-50%		---	P-value		0.042	Power	0.000		Power-50%		---	P-value		0.359	Power	0.000		Power-50%		0.000	P-value		0.359
Stouffer's		Power	0.005		Power-50%		0.214	P-value		0.710	Power	0.000		Power-50%		---	P-value		0.271	Power	0.000		Power-50%		---	P-value		0.271
4825C/1424	3	5	69.14	33.53	6	21.22	9.96	0.5	<	0.171	5	1.68	1.68	6	14.28	10.15	1.0	-	0.768	5	1.68	1.68	6	4.15	4.15	1.2	-	0.622
453C/453	3	6	29.51	17.47	3	0.00	0.00	1.2	+	0.152	6	1.22	0.98	3	0.00	0.00	1.6	+	0.269	6	1.22	0.98	3	0.00	0.00	1.6	-	0.269
601C/601	3	5	13.42	6.43	6	157.14	131.85	1.2	-	0.299	5	5.61	5.61	6	2.73	2.07	0.9	+	0.617	5	5.61	5.61	6	2.10	2.10	1.0	+	0.544
598C/598	3	6	3.99	1.87	6	11.90	5.18	0.5	-	0.181	6	0.87	0.87	6	4.12	3.53	1.0	-	0.529	6	0.37	0.37	6	0.52	0.52	1.0	-	0.818
1522C/1522	3	5	23.54	23.27	1	31.52	--	-	-	---	5	0.02	0.02	1	5.10	--	-	-	---	5	0.02	0.02	1	5.10	--	-	-	---
Habitat Means			27.92	16.51		44.36	36.75		+			1.88	1.83		5.25	3.94		<			1.78	1.73		2.37	1.69		+	
Fisher's		Power	0.021		Power-50%		0.089	P-value		0.226 y	Power	0.008		Power-50%		0.018	P-value		0.439 y	Power	0.028		Power-50%		0.028	P-value		0.394 y
Stouffer's		Power	0.018		Power-50%		0.149	P-value		0.631	Power	0.024		Power-50%		0.046	P-value		0.430	Power	0.077		Power-50%		0.053	P-value		0.312

(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-3.6. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE)								Morphological Group - Fine Filamentous Greens								Acrosiphonia sp. (A)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	8.98	8.98	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.16	0.15	6	6.44	6.44	1.4	-	0.501	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.02	0.02	1.0	-	0.326	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.04	0.02	0.9	-	0.372	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	3.50	1.69	0.8	-	0.094	5	0.00	0.00	6	2.90	1.84	1.0	-	0.176
Habitat Means			0.00	0.00		0.00	0.00		o			0.03	0.03		3.79	3.43		-			0.00	0.00		0.58	0.37		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.037	Power	0.001		Power-50%		0.001	P-value		0.406
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.040	Power	0.000		Power-50%		---	P-value		0.389
4825C/1424	2	5	0.00	0.00	6	2.65	2.65	1.6	-	0.363	5	0.53	0.27	6	2.59	2.24	1.1	-	0.892	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	18.37	17.29	6	1.05	1.01	1.3	+	0.625	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.12	0.12	6	1.88	1.19	0.8	-	0.812	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.01	0.00	6	0.13	0.13	1.3	-	0.714	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	15.47	15.47	4	8.93	4.54	1.1	+	0.748	6	0.00	0.00	4	2.70	2.03	0.8	-	0.276
Habitat Means			0.00	0.00		0.53	0.53		-			6.90	6.63		2.92	1.82		-			0.00	0.00		0.54	0.41		-	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	0.153		Power-50%		0.124	P-value		0.710 y	Power	0.001		Power-50%		0.001	P-value		0.578
Stouffer's		Power	---		Power-50%		---	P-value		0.450	Power	0.121		Power-50%		0.218	P-value		0.487	Power	0.000		Power-50%		---	P-value		0.684
4825C/1424	3	5	0.00	0.00	6	10.13	10.13	1.6	-	0.363	5	61.19	47.97	6	132.80	86.14	0.8	-	0.521	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	16.36	9.01	3	0.07	0.03	1.1	+	0.186	6	0.00	0.00	3	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	6	0.63	0.63	1.6	-	0.363	5	205.85	171.61	6	114.92	77.59	0.8	+	0.620	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.50	0.50	6	3.60	3.60	1.3	-	0.905	6	112.06	73.24	6	9.23	3.60	0.9	+	0.823	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	4.45	4.02	1	5.18	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.10	0.10		2.87	3.59		-			79.98	61.17		52.44	41.84		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.280	Power	0.026		Power-50%		0.070	P-value		0.305	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.330	Power	0.071		Power-50%		0.091	P-value		0.179	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A)								Chaetomorpha/Rhizoclonium spp. (A) (b)								Chaetomorpha melagonium (A)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.15	0.15	6	0.00	0.00	1.4	+	0.352	6	0.15	0.15	6	0.00	0.00	1.4	+	0.352	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.28	0.28	1.6	-	0.363	5	0.00	0.00	6	0.28	0.28	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.03	0.03		0.06	0.06		-			0.03	0.03		0.06	0.06		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.285	Power	0.000		Power-50%		0.000	P-value		0.285	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.299	Power	0.000		Power-50%		0.000	P-value		0.299	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	1.0	-	0.179	5	0.00	0.00	6	0.00	0.00	1.0	-	0.179	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.06	0.06	1.4	-	0.984	6	0.00	0.00	6	0.06	0.06	1.4	-	0.984	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.17	0.17	4	0.32	0.32	0.9	-	0.656	6	0.17	0.17	4	0.32	0.32	0.9	-	0.651	6	0.00	0.00	4	0.00	0.00	1.7	-	0.363
Habitat Means			0.03	0.03		0.08	0.08		-			0.03	0.03		0.08	0.08		-			0.00	0.00		0.00	0.00		+	
Fisher's		Power	0.021		Power-50%		0.017	P-value		0.418	Power	0.023		Power-50%		0.017	P-value		0.417	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	0.014		Power-50%		0.083	P-value		0.467	Power	0.012		Power-50%		0.083	P-value		0.466	Power	---		Power-50%		---	P-value		0.425
4825C/1424	3	5	0.44	0.44	6	0.53	0.53	1.0	-	0.900	5	0.44	0.44	6	0.53	0.53	1.0	-	0.898	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374
453C/453	3	6	0.15	0.10	3	0.00	0.00	1.2	+	0.178	6	0.15	0.10	3	0.00	0.00	1.2	+	0.178	6	0.00	0.00	3	0.00	0.00	-	o	1.000
601C/601	3	5	8.43	7.62	6	25.11	25.11	1.2	-	0.574	5	8.43	7.62	6	25.11	25.11	1.2	-	0.574	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374
598C/598	3	6	13.34	12.82	6	1.66	0.96	1.2	-	0.574	6	13.29	12.83	6	1.66	0.96	1.2	-	0.569	6	0.05	0.05	6	0.00	0.00	1.4	+	0.363
1522C/1522	3	5	0.00	0.00	1	0.64	--	-	-	---	5	0.00	0.00	1	0.64	--	-	-	---	5	0.00	0.00	1	0.00	--	-	+	---
Habitat Means			4.47	4.19		5.59	6.65		+			4.46	4.20		5.59	6.65		+			0.01	0.01		0.00	0.00		+	
Fisher's		Power	0.069		Power-50%		0.203	P-value		0.325 y	Power	0.060		Power-50%		0.194	P-value		0.324 y	Power	---		Power-50%		---	P-value		0.175
Stouffer's		Power	0.130		Power-50%		0.351	P-value		0.153	Power	0.130		Power-50%		0.377	P-value		0.151	Power	---		Power-50%		---	P-value		0.145

(b) Chaetomorpha melagonium not included.

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

Table C-3.6. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Site Pair	MVD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Gomontia polyrhiza (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	8.98	8.98	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.01	0.00	6	6.44	6.44	1.4	-	0.947	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.02	0.02	1.0	-	0.326	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.03	0.02	0.9	-	0.374	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.32	0.21	1.0	-	0.193	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		3.16	3.13		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---		P-value	0.085	Power	---			Power-50%	---		P-value	0.732	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	---			Power-50%	0.366		P-value	0.089	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.500
4825C/1424	2	5	0.53	0.27	6	2.59	2.23	1.1	-	0.890	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	18.37	17.29	6	1.05	1.01	1.3	-	0.625	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.12	0.12	6	1.87	1.19	0.8	-	0.823	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.07	0.06	1.3	-	0.364	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	15.30	15.30	4	5.91	3.70	1.3	-	0.640	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			6.87	6.60		2.30	1.64		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.153			Power-50%	0.137		P-value	0.597 y	Power	---			Power-50%	---		P-value	0.536	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	0.162			Power-50%	0.181		P-value	0.338	Power	---			Power-50%	---		P-value	0.417	Power	---			Power-50%	---		P-value	0.500
4825C/1424	3	5	60.76	47.54	6	132.27	85.92	0.8	-	0.510	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	6	16.21	9.00	3	0.03	0.03	1.1	+	0.067	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.03	0.03	0.9	-	0.423
601C/601	3	5	197.41	164.04	6	89.81	79.12	0.8	+	0.547	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	98.72	62.26	6	7.56	3.57	0.8	+	0.864	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
1522C/1522	3	5	4.45	4.02	1	4.55	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			75.51	57.37		46.85	42.16		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.01	0.01		-	
Fisher's		Power	0.039			Power-50%	0.074		P-value	0.167	Power	---			Power-50%	---		P-value	0.698	Power	---			Power-50%	---		P-value	0.318
Stouffer's		Power	0.103			Power-50%	0.028		P-value	0.119	Power	---			Power-50%	---		P-value	0.500	Power	---			Power-50%	---		P-value	0.124

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

Site Pair	MVD	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	1.0	+	0.175	6	0.00	0.00	5	0.00	0.00	1.0	+	0.175	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000			Power-50%	0.000		P-value	0.404	Power	0.000			Power-50%	0.000		P-value	0.404	Power	---			Power-50%	---		P-value	0.732
Stouffer's		Power	0.055			Power-50%	0.000		P-value	0.377	Power	0.000			Power-50%	0.000		P-value	0.377	Power	---			Power-50%	---		P-value	0.500
4825C/1424	2	5	0.00	0.00	6	0.25	0.25	1.5	-	0.358	5	0.00	0.00	6	0.25	0.25	1.5	-	0.358	5	0.00	0.00	6	0.22	0.22	1.5	-	0.357
453C/453	2	6	0.00	0.00	6	0.50	0.50	1.4	-	0.929	6	0.00	0.00	6	0.50	0.50	1.4	-	0.929	6	0.00	0.00	6	0.50	0.50	1.4	-	0.625
601C/601	2	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.15	0.15		-			0.00	0.00		0.15	0.15		-			0.00	0.00		0.14	0.14		-	
Fisher's		Power	0.002			Power-50%	0.018		P-value	0.519	Power	0.002			Power-50%	0.018		P-value	0.519	Power	0.001			Power-50%	0.001		P-value	0.288
Stouffer's		Power	0.023			Power-50%	0.156		P-value	0.431	Power	0.020			Power-50%	0.043		P-value	0.431	Power	0.022			Power-50%	---		P-value	0.275
4825C/1424	3	5	0.24	0.16	6	2.04	1.63	1.1	-	0.352	5	0.24	0.16	6	2.04	1.63	1.1	-	0.352	5	0.08	0.08	6	0.01	0.00	1.2	+	0.738
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
601C/601	3	5	2.11	1.10	6	0.60	0.60	0.6	+	0.241	5	2.11	1.10	6	0.60	0.60	0.6	+	0.241	5	1.62	1.17	6	0.60	0.60	0.8	+	0.435
598C/598	3	6	0.06	0.05	6	0.04	0.03	0.9	+	0.783	6	0.06	0.05	6	0.04	0.03	0.9	+	0.783	6	0.05	0.05	6	0.04	0.03	0.9	+	0.805
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.48	0.26		0.54	0.57		+			0.48	0.26		0.54	0.57		+			0.35	0.26		0.13	0.16		+	
Fisher's		Power	0.044			Power-50%	0.214		P-value	0.445 y	Power	0.038			Power-50%	0.200		P-value	0.445 y	Power	0.025			Power-50%	0.025		P-value	0.409
Stouffer's		Power	0.000			Power-50%	0.308		P-value	0.358	Power	0.001			Power-50%	0.317		P-value	0.358	Power	0.000			Power-50%	0.184		P-value	0.335

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

Table C-3.6. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Site Pair	MVD	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.0	+	0.175									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	5	*0.00*	*0.00*	*6*	*0.00*	*0.00*	-	*o*	*1.000*	5	*0.00*	*0.00*	*6*	*0.00*	*0.00*	-	*o*	*1.000*									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.000	P-value		0.404	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.377	Power	---		Power-50%		---	P-value		
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.03	0.03	1.6	-	0.363									
453C/453	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.01	0.01		-										
Fisher's		Power	---		Power-50%		---	P-value		0.632 y	Power	---		Power-50%		---	P-value		0.632	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.639	Power	---		Power-50%		---	P-value		0.534	Power	---		Power-50%		---	P-value		
4825C/1424	3	5	0.16	0.16	6	0.00	0.00	1.2	+	0.899	5	0.00	0.00	6	2.04	1.63	1.2	-	0.268									
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000									
601C/601	3	5	0.24	0.24	6	0.00	0.00	1.3	+	0.374	5	0.24	0.24	6	0.00	0.00	1.3	+	0.374									
598C/598	3	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---									
Habitat Means			0.08	0.08		0.00	0.00		+			0.05	0.05		0.41	0.41		-										
Fisher's		Power	0.085		Power-50%		---	P-value		0.283	Power	0.000		Power-50%		---	P-value		0.515	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.174		Power-50%		---	P-value		0.171	Power	0.000		Power-50%		---	P-value		0.521	Power	---		Power-50%		---	P-value		

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

Table C-3.7. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Total Phaeophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group - Bladed Browns N	C	SE	N	O	SE	CV	D	P	Fucus gardneri (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	1185.60	581.38	6	134.70	71.66	0.6	+	0.736	6	1185.45	581.40	6	133.73	71.07	0.6	+	0.736	6	1185.45	581.40	6	133.73	71.07	0.6	+	0.736
453C/453	1	6	2150.77	743.99	6	589.77	408.39	0.4	+	0.096	6	2145.93	743.25	6	589.33	408.39	0.4	+	0.096	6	2145.93	743.25	6	589.33	408.39	0.4	+	0.096
601C/601	1	6	755.84	677.93	5	0.63	0.39	1.4	+	0.410	6	755.84	677.93	5	0.62	0.38	1.4	+	0.410	6	755.83	677.93	5	0.62	0.38	1.4	+	0.410
598C/598	1	6	0.05	0.05	6	40.25	38.01	1.3	-	0.171	6	0.05	0.05	6	38.57	36.33	1.3	-	0.171	6	0.05	0.05	6	38.57	36.33	1.3	-	0.171
1522C/1522	1	5	481.70	473.54	6	525.18	222.14	0.7	-	0.932	5	481.70	473.54	6	479.75	211.50	0.7	+	0.997	5	481.70	473.54	6	479.75	211.50	0.7	+	0.997
Habitat Means			914.79	495.38		258.11	148.12		+			913.79	495.23		248.40	145.54		+			913.79	495.23		248.40	145.54		+	
Fisher's		Power	0.074			Power-50%	0.217	P-value		0.242	Power	0.078			Power-50%	0.207	P-value		0.235	Power	0.078			Power-50%	0.078	P-value		0.235
Stouffer's		Power	0.096			Power-50%	0.325	P-value		0.484	Power	0.105			Power-50%	0.334	P-value		0.477	Power	0.101			Power-50%	0.337	P-value		0.477
4825C/1424	2	5	3144.00	931.52	6	1123.08	445.60	0.3	+	0.068	5	3020.26	881.02	6	950.07	368.17	0.3	+	0.046	5	3020.26	881.02	6	950.07	368.17	0.3	+	0.046
453C/453	2	6	1706.81	768.33	6	322.46	135.56	0.5	+	0.164	6	1692.27	767.32	6	318.22	134.20	0.5	+	0.159	6	1692.27	767.32	6	318.22	134.20	0.5	+	0.159
601C/601	2	6	2557.54	932.53	6	914.15	520.05	0.4	+	0.155	6	2544.37	931.58	6	913.23	519.26	0.4	+	0.157	6	2544.37	931.58	6	913.23	519.26	0.4	+	0.157
598C/598	2	6	231.97	201.20	6	1570.19	768.28	0.6	-	0.123	6	231.03	201.35	6	1563.83	764.83	0.6	-	0.123	6	231.03	201.35	6	1563.83	764.83	0.6	-	0.123
1522C/1522	2	6	1238.96	582.98	4	3553.64	1313.38	0.4	-	0.106	6	1223.67	568.86	4	2755.98	1245.83	0.4	-	0.243	6	1223.67	568.86	4	2755.98	1245.83	0.4	-	0.243
Habitat Means			1775.86	683.31		1496.70	636.57		.			1742.32	670.03		1300.27	606.46		+			1742.32	670.03		1300.27	606.46		+	
Fisher's		Power	---			Power-50%	---	P-value		0.072	Power	---			Power-50%	---	P-value		0.054	Power	---			Power-50%	---	P-value		0.054
Stouffer's		Power	0.091			Power-50%	0.302	P-value		0.585	Power	0.142			Power-50%	0.357	P-value		0.536	Power	0.143			Power-50%	0.364	P-value		0.536
4825C/1424	3	5	3149.25	822.55	6	1007.96	556.91	0.3	+	0.054	5	2886.05	828.49	6	699.68	581.17	0.4	+	0.054	5	2884.64	828.58	6	699.68	581.17	0.4	+	0.054
453C/453	3	6	1713.87	562.63	3	689.33	606.37	0.5	+	*0.299*	*6*	*1606.37*	*537.17*	*3*	*688.90*	*606.08*	*0.5*	+	*0.332*	*6*	*1606.37*	*537.17*	3	688.90	606.08	0.5	-	0.332
601C/601	3	5	2046.39	1039.96	6	1835.98	885.49	0.5	+	0.880	5	1632.08	981.38	6	1814.36	882.77	0.5	-	0.893	5	1632.08	981.38	6	1814.36	882.77	0.5	-	0.893
598C/598	3	6	1550.99	820.13	6	1168.79	384.03	0.5	+	0.682	6	1474.56	791.04	6	987.64	339.70	0.5	+	0.584	6	1474.17	790.87	6	987.53	339.66	0.5	-	0.584
1522C/1522	3	5	1293.36	249.06	1	1009.35	--	-	+	---	5	1268.50	238.53	1	937.80	--	-	+	---	5	1268.50	238.53	1	937.80	--	-	-	---
Habitat Means			1950.77	698.87		1142.28	608.20		+			1773.51	675.32		1025.68	602.43		+			1773.15	675.31		1025.65	602.42		-	
Fisher's		Power	---			Power-50%	---	P-value		0.063	Power	---			Power-50%	---	P-value		0.070	Power	---			Power-50%	---	P-value		0.070
Stouffer's		Power	0.414			Power-50%	0.372	P-value		0.116	Power	0.460			Power-50%	0.303	P-value		0.215	Power	0.454			Power-50%	0.279	P-value		0.215

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

Site Pair	MVD	Petalonia fascia (AE) N	C	SE	N	O	SE	CV	D	P	Total Punctaria (AE) N	C	SE	N	O	SE	CV	D	P	Punctaria spp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.536	Power	---			Power-50%	---	P-value		0.536
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.417	Power	---			Power-50%	---	P-value		0.417
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.536	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		*0.732*
Stouffer's		Power	---			Power-50%	---	P-value		0.450	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	5	1.41	1.31	6	0.00	0.00	1.2	.	0.217	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.39	0.39	6	0.10	0.10	1.2	+	0.493	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	*0.00*	*0.00*	6	*0.00*	*0.00*	-	o	*1.000*
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.36	0.34		0.02	0.03		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002			Power-50%	0.001	P-value		0.264	Power	---			Power-50%	---	P-value		0.698	Power	---			Power-50%	---	P-value		0.698
Stouffer's		Power	0.033			Power-50%	0.000	P-value		0.236	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

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

Table C-3.7. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Site Pair	MVD	Punctaria lobata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Cystoseira geminata (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.03	0.03	1.4	-		0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.54	0.53	6	0.37	0.37	1.0	+		0.796	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o		1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	3.83	2.94	1.2	-		0.249	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.11	0.11		0.85	0.67		-				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.001		Power-50%		0.000	P-value			0.330	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.016		Power-50%		0.000	P-value			0.409	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.86	1.59	6	4.36	3.94	1.0	-		0.599	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	7.42	6.67	6	0.75	0.42	1.2	+		0.359	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.20	1.20	6	0.05	0.03	1.4	+		0.821	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.80	1.77	4	0.46	0.33	1.4	+		0.565	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			2.46	2.25		1.12	0.94		+				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.016		Power-50%		0.154	P-value			0.454	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.042		Power-50%		0.351	P-value			0.279	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	4.76	2.92	6	37.35	35.22	1.3	-		0.432	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	19.21	17.32	3	0.03	0.03	1.8	+		0.256	6	0.00	0.00	3	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	3.95	3.14	6	6.39	4.54	0.8	+		0.682	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	12.26	8.22	6	5.92	3.48	0.7	+		0.494	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	8.06	4.96	1	0.02	--	-	+		---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			9.65	7.31		9.94	10.82		+				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.006		Power-50%		0.077	P-value			0.411	y Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.009		Power-50%		0.167	P-value			0.171	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o		1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o		1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value			0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o		1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o		1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value			0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o		1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o		1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o		1.000	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o		---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value			0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.415	Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value		0.415

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

Table C-3.7. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Site Pair	MVD	Eudesme virescens (AE) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.03	0.03	1.4	-	0.363	6	0.15	0.13	6	0.93	0.71	0.9	-	0.802
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.54	0.53	6	0.37	0.37	1.0	+	0.796	6	4.29	4.10	6	0.07	0.07	1.3	+	0.041
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.01	0.00	0.7	-	0.313
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.69	1.68	1.4	-	0.354
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	3.83	2.94	1.2	-	0.249	5	0.00	0.00	6	41.60	24.97	0.9	-	0.157
Habitat Means			0.00	0.00		0.00	0.00		o			0.11	0.11		0.85	0.67		-			0.89	0.85		8.86	5.49		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.001		Power-50%		0.000	P-value		0.330	Power	0.088		Power-50%		0.088	P-value		0.167x
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.015		Power-50%		0.000	P-value		0.409	Power	0.142		Power-50%		0.164	P-value		0.421
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.86	1.59	6	4.36	3.94	1.0	-	0.599	5	121.88	78.74	6	168.65	83.47	0.6	-	0.697
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	7.42	6.67	6	0.75	0.42	1.2	+	0.359	6	7.13	4.50	6	3.50	2.22	0.7	+	0.486
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.20	1.20	6	0.05	0.03	1.4	+	0.821	6	11.97	11.97	6	0.86	0.85	1.3	+	0.822
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.93	0.85	6	6.36	6.24	1.2	-	0.896
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.80	1.77	4	0.46	0.33	1.4	+	0.565	6	13.50	13.46	4	797.21	398.49	0.5	-	0.020
Habitat Means			0.00	0.00		0.00	0.00		o			2.46	2.25		1.12	0.94		+			31.08	21.90		195.32	98.25		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.017		Power-50%		0.131	P-value		0.454	Power	0.146		Power-50%		0.146	P-value		0.149
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.041		Power-50%		0.339	P-value		0.279	Power	0.164		Power-50%		0.273	P-value		0.414
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	4.76	2.92	6	37.35	35.22	1.3	-	0.432	5	258.44	146.07	6	270.93	196.69	0.7	-	0.962
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	19.21	17.32	3	0.03	0.03	1.8	-	0.256	6	85.13	39.15	3	0.40	0.26	0.9	-	0.277
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	3.95	3.14	6	6.39	4.54	0.8	-	0.682	5	410.37	407.56	6	15.23	6.17	1.2	-	0.781
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	12.26	8.22	6	5.92	3.48	0.7	-	0.494	6	64.18	53.93	6	175.23	91.87	0.6	-	0.322
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	8.06	4.96	1	0.02	--	-	-	---	5	16.80	8.75	1	71.53	--	-	-	---
Habitat Means			0.00	0.00		0.00	0.00		o			9.65	7.31		9.94	10.82		-			166.98	131.09		106.66	73.75		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.008		Power-50%		0.067	P-value		0.411 y	Power	0.020		Power-50%		0.020	P-value		0.484
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.011		Power-50%		0.162	P-value		0.171	Power	0.035		Power-50%		0.142	P-value		0.555

(a) Genera not separated.

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

Site Pair	MVD	Ectocarpus sp. (AE) N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.15	0.13	6	0.93	0.71	0.9	-	0.802
453C/453	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.03	0.03	6	0.00	0.00	1.4	-	0.363	6	4.25	4.11	6	0.07	0.07	1.3	+	0.158
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	0.7	-	0.439
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.69	1.68	1.4	-	0.375
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	38.60	22.76	0.9	-	0.151
Habitat Means			0.00	0.00		0.00	0.00		-			0.01	0.01		0.00	0.00		-			0.88	0.85		8.26	5.05		-	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536	Power	0.090		Power-50%		0.090	P-value		0.195
Stouffer's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.315	Power	0.157		Power-50%		0.149	P-value		0.326
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.12	0.12	1.6	-	0.363	5	121.79	78.77	6	168.32	83.53	0.6	-	0.699
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.08	0.08	6	0.00	0.00	1.4	+	0.755	6	7.01	4.48	6	3.47	2.22	0.7	+	0.495
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.03	0.03	1.3	-	0.744	6	11.97	11.97	6	0.83	0.81	1.3	+	0.628
598C/598	2	6	0.00	0.00	6	0.06	0.06	1.4	-	0.363	6	0.00	0.00	6	0.06	0.06	1.4	-	0.363	6	0.93	0.85	6	6.23	6.11	1.2	-	0.893
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.02	0.02	4	0.08	0.08	1.0	-	0.381	6	13.32	13.30	4	797.13	398.54	0.5	-	0.025
Habitat Means			0.00	0.00		0.01	0.01		-			0.02	0.02		0.06	0.06		-			31.01	21.87		195.20	98.24		-	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.220	Power	0.097		Power-50%		0.097	P-value		0.183
Stouffer's		Power	---		Power-50%		---	P-value		0.240	Power	---		Power-50%		---	P-value		0.178	Power	0.120		Power-50%		0.375	P-value		0.441
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	206.62	125.38	6	268.35	197.38	0.7	-	0.807
453C/453	3	6	0.09	0.09	3	0.00	0.00	2.0	+	0.363	6	0.09	0.09	3	0.00	0.00	1.9	-	0.344	6	50.73	32.09	3	0.40	0.26	1.2	+	0.346
601C/601	3	5	3.52	3.23	6	0.00	0.00	1.2	+	0.337	5	0.42	0.42	6	0.00	0.00	1.3	-	0.374	5	401.67	400.02	6	14.24	6.26	1.2	+	0.731
598C/598	3	6	0.39	0.39	6	0.00	0.00	1.4	+	0.633	6	0.00	0.00	6	0.09	0.08	1.2	-	0.300	6	63.46	53.37	6	171.14	89.87	0.6	-	0.327
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	-	---	5	16.59	8.66	1	71.53	--	-	-	---
Habitat Means			0.80	0.74		0.00	0.00		+			0.10	0.10		0.02	0.02		-			147.82	123.90		105.13	73.44		-	
Fisher's		Power	0.098		Power-50%		0.055	P-value		0.125	Power	0.000		Power-50%		0.000	P-value		0.434 y	Power	0.023		Power-50%		0.023	P-value		0.567 y
Stouffer's		Power	0.257		Power-50%		0.221	P-value		0.110	Power	0.001		Power-50%		0.003	P-value		0.410	Power	0.025		Power-50%		0.124	P-value		0.413

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

Table C-3.7. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
453C/453	1	6	0.01	0.00	6	0.00	0.00	1.0	+	0.203	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363
598C/598	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	1	5	0.00	0.00	6	3.00	3.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.60	0.60		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.004		Power-50%		0.002	P-value		0.300	Power	---		Power-50%		---	P-value		0.632 y	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.335	Power	---		Power-50%		---	P-value		0.393	Power	---		Power-50%		---	P-value		0.417
4825C/1424	2	5	0.08	0.08	6	0.21	0.15	0.9	-	0.511	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
453C/453	2	6	0.03	0.03	6	0.02	0.01	0.9	+	0.792	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	2	6	0.16	0.16	4	0.00	0.00	1.7	-	0.363	6	0.00	0.00	4	0.00	0.00	1.0	-	0.779	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
Habitat Means			0.06	0.06		0.05	0.03		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	0.010		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	0.024		Power-50%		---	P-value		0.173	Power	---		Power-50%		---	P-value		0.263	Power	---		Power-50%		---	P-value		0.425
4825C/1424	3	5	51.81	51.81	6	2.58	1.35	1.2	+	0.495	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374
453C/453	3	6	34.23	33.77	3	0.00	0.00	1.9	+	0.357	6	2.15	2.15	3	0.00	0.00	2.0	+	0.363	6	1.52	1.52	3	0.00	0.00	2.0	+	0.363
601C/601	3	5	4.76	4.43	6	0.99	0.64	1.0	+	0.422	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	3	6	0.32	0.21	6	4.00	2.07	0.7	-	0.242	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	3	5	0.21	0.10	1	0.00	--		-	---	5	0.00	0.00	1	0.00	--		- o	---	5	0.00	0.00	1	0.00	--		- o	---
Habitat Means			18.27	18.06		1.61	1.02		+			0.43	0.43		0.00	0.00		+			0.30	0.30		0.00	0.00		+	
Fisher's		Power	0.020		Power-50%		0.084	P-value		0.294	Power	---		Power-50%		---	P-value		0.299	Power	---		Power-50%		---	P-value		0.299
Stouffer's		Power	0.035		Power-50%		0.306	P-value		0.557	Power	---		Power-50%		---	P-value		0.268	Power	---		Power-50%		---	P-value		0.268

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

Site Pair	MVD	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia fungiformis (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	1	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.438	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.304	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
453C/453	3	6	0.63	0.63	3	0.00	0.00	2.0	+	0.363	6	1.02	1.02	3	0.00	0.00	2.0	+	0.363	6	1.02	1.02	3	0.00	0.00	2.0	+	0.363
601C/601	3	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--		- o	---	5	0.00	0.00	1	0.00	--		- o	---	5	0.00	0.00	1	0.00	--		- o	---
Habitat Means			0.13	0.13		0.00	0.00		+			0.20	0.20		0.00	0.00		+			0.20	0.20		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.311	Power	---		Power-50%		---	P-value		0.311	Power	---		Power-50%		---	P-value		0.311

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

Table C-3.8. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta							Morphological Group - Bladed Reds								Constantinea simplex (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.08	0.08	6	4.65	3.25	1.0	-	0.183	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	11.12	11.12	6	39.08	38.61	1.1	-	0.502	6	0.00	0.00	6	3.63	3.63	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.01	0.01	1.1	-	0.762	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	1.12	1.12	6	0.15	0.11	1.3	+	0.733	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	83.52	59.41	1.1	-	0.219	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.46	2.46		25.48	20.28		-			0.00	0.00		0.73	0.73		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.136		Power-50%		0.002	P-value		0.139	Power	---		Power-50%		---	P-value		0.359	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.282		Power-50%		0.057	P-value		0.274	Power	---		Power-50%		---	P-value		0.251	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	114.96	92.11	6	49.29	45.28	0.8	+	0.516	5	2.38	2.21	6	6.22	3.74	0.8	-	0.426	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	435.85	204.44	6	323.01	264.31	0.6	-	0.743	6	75.37	75.29	6	2.62	1.97	1.4	-	0.949	6	0.00	0.00	6	0.48	0.48	1.4	-	0.363
601C/601	2	6	16.64	15.65	6	3.56	3.52	1.1	-	0.650	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	1.26	0.91	1.0	-	0.078	6	0.00	0.00	6	0.08	0.08	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	6.01	5.85	4	213.81	133.63	0.7	-	0.029	6	0.12	0.12	4	11.48	10.22	1.0	-	0.217	6	0.00	0.00	4	2.10	2.10	1.1	-	0.391
Habitat Means			114.69	63.61		118.19	89.53		+			15.57	15.52		4.08	3.20		-			0.00	0.00		0.52	0.52		-	
Fisher's		Power	0.003		Power-50%		0.078	P-value		0.721xy	Power	0.032		Power-50%		0.000	P-value		0.191 y	Power	---		Power-50%		---	P-value		0.371
Stouffer's		Power	0.007		Power-50%		0.193	P-value		0.927	Power	0.116		Power-50%		0.004	P-value		0.149	Power	---		Power-50%		---	P-value		0.255
4825C/1424	3	5	545.84	313.64	6	191.82	71.55	0.6	+	0.954	5	14.76	10.85	6	66.70	26.07	0.5	-	0.122	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	6	523.53	143.34	3	0.01	0.01	0.5	+	0.026	6	33.99	17.66	3	0.00	0.00	1.0	+	0.112	6	0.00	0.00	3	0.00	0.00	-	o	1.000
601C/601	3	5	174.20	96.96	6	59.44	36.03	0.6	+	0.263	5	5.52	4.84	6	9.64	5.97	0.7	-	0.615	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	52.22	48.65	6	31.26	19.59	0.9	+	0.698	6	4.47	4.47	6	6.14	4.82	0.9	-	0.805	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	46.47	33.20	1	527.66	--	-	-	---	5	0.34	0.21	1	1.41	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			268.45	127.16		162.04	31.80		+			11.82	7.61		16.78	9.21		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.038	Power	0.016		Power-50%		0.072	P-value		0.273	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		0.193	P-value		0.037	Power	0.028		Power-50%		0.160	P-value		0.628	Power	---		Power-50%		---	P-value		0.500

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

		Gigartinaceae Group (P) (a)							Total Membranoptera (A)								Membranoptera weeksiae (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	3.63	3.63	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.73	0.73		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	2.28	2.23	6	5.78	3.47	0.8	-	0.440	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	75.25	75.17	6	2.13	1.98	1.4	+	0.890	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.12	0.12	4	9.38	8.13	0.9	-	0.218	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			15.53	15.50		3.46	2.71		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.005		Power-50%		0.001	P-value		0.326 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.034		Power-50%		0.004	P-value		0.386	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	4.15	1.71	6	30.59	14.97	0.7	-	0.942	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	6	33.62	17.63	3	0.00	0.00	1.0	+	0.115	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
601C/601	3	5	0.58	0.44	6	8.75	5.87	1.0	-	0.560	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	2.19	2.19	6	5.84	4.84	0.9	-	0.508	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.34	0.21	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			8.18	4.44		9.04	6.42		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.021		Power-50%		0.078	P-value		0.546	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.033		Power-50%		0.182	P-value		0.572	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.8. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Site Pair	MVD	Total Palmaria (A) N	C	SE	N	O	SE	CV	D	P	Palmaria spp. (A) N	C	SE	N	O	SE	CV	D	P	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	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
453C/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
601C/601	1	6	0.00	0.00	5	0.00	0.00		-	1.000	6	0.00	0.00	5	0.00	0.00		-	1.000	6	0.00	0.00	5	0.00	0.00		-	1.000
598C/598	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
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---		P-value	0.536	Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.536
Stouffer's		Power	---		Power-50%		---		P-value	0.425	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.425
4825C/1424	2	5	0.10	0.10	6	0.17	0.17	1.1	-	0.753	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.10	0.10	6	0.17	0.17	1.1	-	0.753
453C/453	2	6	0.12	0.12	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.12	0.12	6	0.00	0.00	1.4	+	0.363
601C/601	2	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000
598C/598	2	6	0.00	0.00	6	0.08	0.08	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00		-	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
Habitat Means			0.04	0.04		0.05	0.05		+			0.00	0.00		0.00	0.00		o			0.04	0.04		0.03	0.03		+	
Fisher's		Power	---		Power-50%		---		P-value	0.480 y	Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.394
Stouffer's		Power	---		Power-50%		---		P-value	0.531	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.265
4825C/1424	3	5	10.49	9.92	6	14.56	6.79	0.7	-	0.736	5	6.21	6.21	6	0.05	0.05	1.3	+	0.883	5	4.28	3.72	6	13.85	6.75	0.6	-	0.272
453C/453	3	6	0.23	0.23	3	0.00	0.00	2.0	+	0.363	6	0.23	0.23	3	0.00	0.00	2.0	+	0.363	6	0.00	0.00	3	0.00	0.00		-	1.000
601C/601	3	5	4.93	4.40	6	0.88	0.73	1.0	+	0.983	5	1.65	1.18	6	0.02	0.02	0.9	+	0.280	5	3.28	3.28	6	0.87	0.71	1.0	+	0.515
598C/598	3	6	0.00	0.00	6	0.01	0.00	0.8	-	0.401	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.01	0.00	0.8	-	0.401
1522C/1522	3	5	0.00	0.00	1	1.40	--		-	---	5	0.00	0.00	1	0.00	--		-	---	5	0.00	0.00	1	1.40	--		-	---
Habitat Means			3.13	2.91		3.37	1.88		+			1.62	1.52		0.01	0.02		+			1.51	1.40		3.22	1.87		-	
Fisher's		Power	0.009		Power-50%		0.099		P-value	0.625 y	Power	0.046		Power-50%		0.077		P-value	0.240	Power	0.092		Power-50%		0.092		P-value	0.327
Stouffer's		Power	0.012		Power-50%		0.250		P-value	0.586	Power	0.177		Power-50%		0.161		P-value	0.221	Power	0.204		Power-50%		0.053		P-value	0.252

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

Site Pair	MVD	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	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
453C/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
601C/601	1	6	0.00	0.00	5	0.00	0.00		-	1.000	6	0.00	0.00	5	0.00	0.00		-	1.000	6	0.00	0.00	5	0.00	0.00		-	1.000
598C/598	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
1522C/1522	1	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.08	0.08	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00		-	1.000	6	0.00	0.00	4	0.00	0.00		-	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.02	0.02		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.536	Power	---		Power-50%		---		P-value	0.550
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.240	Power	---		Power-50%		---		P-value	0.429
4825C/1424	3	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.65	0.65	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363
453C/453	3	6	0.00	0.00	3	0.00	0.00		-	1.000	6	0.00	0.00	3	0.00	0.00		-	1.000	6	0.12	0.12	3	0.00	0.00	2.0	+	0.363
601C/601	3	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--		-	---	5	0.00	0.00	1	0.00	--		-	---	5	0.00	0.00	1	0.00	--		-	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.13	0.16		-			0.02	0.02		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.477	Power	---		Power-50%		---		P-value	0.582 y
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.449	Power	---		Power-50%		---		P-value	0.642

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

Table C-3.8. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Rhodymenia pertusa (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.27	0.27	1.6	-	0.361	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.05	0.05		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.535	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	0.12	0.12	6	21.25	14.27	1.0	-	0.224	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.29	0.24	1.2	-	0.267
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.02	0.02	3	0.00	0.00	2.0	+	0.363
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	2.28	2.28	6	0.30	0.30	1.3	+	0.898	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.01	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.48	0.48		4.31	3.64		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.06	0.06		-	
Fisher's		Power	0.012		Power-50%		---	P-value		0.400	Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.515
Stouffer's		Power	0.107		Power-50%		---	P-value		0.472	Power	---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		---	P-value		0.631

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

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.08	0.08	6	4.29	3.32	1.1	-	0.266	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	11.12	11.12	6	33.47	33.47	1.1	-	0.541	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	1.0	-	0.579	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	1.12	1.12	6	0.15	0.11	1.3	+	0.733	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	82.85	59.29	1.1	-	0.221	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	1.97	1.97	1.6	-	0.363
Habitat Means			2.46	2.46		24.15	19.24		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.39	0.39		-	
Fisher's		Power	0.089		Power-50%		---	P-value		0.154	Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.000	P-value		0.536
Stouffer's		Power	0.203		Power-50%		---	P-value		0.275	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.425
4825C/1424	2	5	74.26	55.02	6	38.39	38.39	0.8	+	0.596	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.14	0.09	6	9.62	9.62	1.5	-	0.738
453C/453	2	6	352.84	142.26	6	318.40	262.21	0.6	+	0.910	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	14.33	14.19	6	16.60	16.44	1.0	-	0.919
601C/601	2	6	16.64	15.65	6	3.56	3.52	1.1	+	0.650	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.03	0.03	1.4	-	0.363
598C/598	2	6	0.00	0.00	6	0.92	0.92	1.4	-	0.240	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	5.73	5.57	4	199.22	121.72	0.7	-	0.029	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	10.05	7.75	0.8	-	0.286
Habitat Means			89.89	43.70		112.10	85.35		+			0.00	0.00		0.00	0.00		o			2.89	2.86		7.26	6.77		-	
Fisher's		Power	0.010		Power-50%		0.067	P-value		0.769xy	Power	---		Power-50%		---	P-value		0.732	Power	0.006		Power-50%		0.006	P-value		0.269
Stouffer's		Power	0.028		Power-50%		0.194	P-value		0.870	Power	---		Power-50%		---	P-value		0.500	Power	0.068		Power-50%		0.000	P-value		0.297
4825C/1424	3	5	521.80	302.71	6	31.16	14.08	0.7	+	0.208	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	20.42	17.76	6	11.67	4.89	0.7	+	0.617
453C/453	3	6	477.44	142.87	3	0.00	0.00	0.6	+	0.023	6	2.32	2.32	3	0.00	0.00	2.0	+	0.363	6	62.77	40.27	3	0.00	0.00	1.3	+	0.180
601C/601	3	5	120.99	100.04	6	48.33	35.15	0.8	+	0.479	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	7.33	6.67	6	2.39	2.36	1.0	+	0.471
598C/598	3	6	47.24	43.81	6	23.26	14.04	0.9	+	0.612	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.37	2.37	6	8.59	8.02	1.1	-	0.474
1522C/1522	3	5	44.18	33.24	1	526.24	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.18	0.12	1	5.00	--	-	-	---
Habitat Means			242.33	124.53		125.78	15.82		+			0.46	0.46		0.00	0.00		+			18.61	13.44		5.53	3.82		+	
Fisher's		Power	---		Power-50%		---	P-value		0.017	Power	---		Power-50%		---	P-value		0.477	Power	0.070		Power-50%		0.070	P-value		0.225
Stouffer's		Power	---		Power-50%		0.242	P-value		0.024	Power	---		Power-50%		---	P-value		0.311	Power	0.074		Power-50%		0.261	P-value		0.344

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

Table C-3.8. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

		Dumontia contorta (AE)								Endocladia muricata (P)								Gloiopeltis furcata (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.07	0.07	6	0.90	0.90	1.3	-	0.853
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.65	0.65	6	0.00	0.00	1.4	-	0.363
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.12	1.12	6	0.12	0.12	1.3	+	0.877
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.37	0.37		0.20	0.20		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.537
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.282
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.26	0.26	6	0.00	0.00	1.3	+	0.864
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.24	0.23	6	0.00	0.00	1.4	+	0.360
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.82	0.82	1.4	-	0.610
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.02	0.02	4	0.00	0.00	1.6	·	0.319
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.10	0.10		0.16	0.16		·	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.060		Power-50%		0.060	P-value		0.366 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.149		Power-50%		0.424	P-value		0.275
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	2.0	+	0.363
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.96	2.95	6	0.00	0.00	1.3	·	0.374
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	·	0.363
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	·	---
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.59	0.59		0.00	0.00		·	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.095
Stouffer's		Power	---		Power-50%		---	P-value		0.449	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.060

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

		Microcladia borealis (A)								Nemalion helminthoides (A)								Total Neorhodomela/Rhodomela (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	3.39	3.38	1.4	-	0.494
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.47	10.47	6	33.47	33.47	1.1	-	0.527
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	1.0	-	0.900
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.03	0.03	1.4	-	0.363
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	80.88	58.94	1.1	-	0.228
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			2.10	2.10		23.55	19.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.542	Power	0.049		Power-50%		0.049	P-value		0.139
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.078
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	73.86	55.03	6	28.77	28.77	0.8	+	0.464
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	338.27	133.43	6	301.80	246.06	0.6	+	0.899
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	16.63	15.65	6	2.71	2.71	1.2	+	0.695
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.92	0.92	1.4	-	0.381
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	5.71	5.57	4	188.02	112.97	0.6	-	0.029
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			86.89	41.94		104.45	78.29		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.009		Power-50%		0.009	P-value		0.717 xy
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.026		Power-50%		0.252	P-value		0.810
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	497.18	290.69	6	9.87	3.11	0.7	+	0.093
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	411.10	137.32	3	0.00	0.00	0.7	+	0.023
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	105.68	94.55	6	45.14	35.11	0.9	+	0.535
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	43.97	40.55	6	14.57	6.44	1.0	+	0.388
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	44.00	33.28	1	521.23	--	-	-	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			220.39	119.28		118.16	11.17		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.007
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.011

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

Table C-3.8. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Site Pair	MVD	Neorhodomela/Rhodomela spp. (P) (b)									Neorhodomela larix (P)										Neoptilota asplenioides (P)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	6	0.02	0.02	6	3.39	3.38	1.4	-	0.494	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
453C/453	1	6	10.47	10.47	6	33.47	33.47	1.1	-	0.527	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
601C/601	1	6	0.00	0.00	5	0.00	0.00	1.0	-	0.900	6	0.00	0.00	5	0.00	0.00	-	o	1.000		6	0.00	0.00	5	0.00	0.00	-	o	1.000	
598C/598	1	6	0.00	0.00	6	0.03	0.03	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	1	5	0.00	0.00	6	71.98	58.21	1.3	-	0.271	5	0.00	0.00	6	8.90	8.90	1.6	-	0.363		5	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			2.10	2.10		21.77	19.02		-			0.00	0.00		1.78	1.78		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	0.051		Power-50%		---	P-value		0.153	Power	---		Power-50%		---	P-value		0.536		Power	---		Power-50%		---	P-value		0.732	
Stouffer's		Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.425		Power	---		Power-50%		---	P-value		0.500	
4825C/1424	2	5	73.86	55.03	6	28.77	28.77	0.8	+	0.464	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	0.00	0.00	6	0.00	0.00	-	o	1.000	
453C/453	2	6	338.27	133.43	6	301.80	246.06	0.6	+	0.899	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
601C/601	2	6	16.63	15.65	6	0.17	0.17	1.3	+	0.570	6	0.00	0.00	6	2.54	2.54	1.4	-	0.363		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
598C/598	2	6	0.00	0.00	6	0.92	0.92	1.4	-	0.381	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	2	6	5.71	5.57	4	163.17	89.16	0.6	-	0.029	6	0.00	0.00	4	24.85	24.85	1.1	-	0.391		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
Habitat Means			86.89	41.94		98.97	73.01		+			0.00	0.00		5.48	5.48		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	0.010		Power-50%		0.080	P-value		0.679xy	Power	---		Power-50%		---	P-value		0.371		Power	---		Power-50%		---	P-value		0.732	
Stouffer's		Power	0.031		Power-50%		0.226	P-value		0.798	Power	---		Power-50%		---	P-value		0.349		Power	---		Power-50%		---	P-value		0.500	
4825C/1424	3	5	497.18	290.69	6	6.87	3.00	0.7	+	0.052	5	0.00	0.00	6	3.00	2.57	1.3	-	0.295		5	0.00	0.00	6	0.00	0.00	-	o	1.000	
453C/453	3	6	407.86	137.77	3	0.00	0.00	0.7	+	0.023	6	3.24	2.68	3	0.00	0.00	1.6	+	0.281		6	0.03	0.03	3	0.00	0.00	2.0	+	0.363	
601C/601	3	5	105.68	94.55	6	19.69	11.00	1.0	+	0.815	5	0.00	0.00	6	25.45	25.45	1.6	-	0.363		5	0.00	0.00	6	0.00	0.00	-	o	1.000	
598C/598	3	6	43.97	40.55	6	14.57	6.43	1.0	+	0.388	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	3	5	44.00	33.28	1	521.23	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---		5	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			219.74	119.37		112.47	5.11		+			0.65	0.54		5.69	7.00		-				0.01	0.01		0.00	0.00		+		
Fisher's		Power	---		Power-50%		---	P-value		0.006	Power	0.005		Power-50%		0.000	P-value		0.204		Power	---		Power-50%		---	P-value		0.477	
Stouffer's		Power	---		Power-50%		0.242	P-value		0.012	Power	0.020		Power-50%		0.000	P-value		0.308		Power	---		Power-50%		---	P-value		0.311	

(b) Neorhodomela larix not included.

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

Site Pair	MVD	Ptilota sp. (P)									Odonthalia floccosa (P)										Morphological Group - Fine Filamentous Reds									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.37	0.37	1.4	-	0.363	
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.40	0.40	1.4	-	0.633	
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000		6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	0.00	0.00	6	0.67	0.67	1.6	-	0.363	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.29	0.29		-		
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732		Power	---		Power-50%		---	P-value		0.179	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.219	
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	38.32	38.32	6	1.46	1.45	1.2	-	0.909	
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	1.83	1.66	6	1.49	1.30	0.9	-	0.873	
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.25	0.25	1.4	-	0.360	
1522C/1522	2	6	0.00	0.00	4	1.15	1.15	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000		6	0.16	0.16	4	1.03	1.03	1.0	-	0.403	
Habitat Means			0.00	0.00		0.23	0.23		-			0.00	0.00		0.00	0.00		o				8.06	8.03		0.85	0.81		-		
Fisher's		Power	---		Power-50%		---	P-value		0.550	Power	---		Power-50%		---	P-value		0.732		Power	0.010		Power-50%		0.010	P-value		0.408 y	
Stouffer's		Power	---		Power-50%		---	P-value		0.429	Power	---		Power-50%		---	P-value		0.500		Power	0.051		Power-50%		0.002	P-value		0.216	
4825C/1424	3	5	4.20	4.20	6	9.62	9.62	1.2	-	0.643	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	5.27	2.85	6	75.71	61.41	1.2	-	0.302	
453C/453	3	6	0.22	0.22	3	0.00	0.00	2.0	+	0.363	6	1.00	1.00	3	0.00	0.00	2.0	+	0.363		6	1.69	1.20	3	0.00	0.00	1.4	+	0.108	
601C/601	3	5	5.03	5.03	6	0.80	0.80	1.1	+	0.823	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	46.62	38.15	6	0.58	0.58	1.0	+	0.176	
598C/598	3	6	0.91	0.90	6	0.00	0.00	1.4	+	0.381	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.51	0.39	6	1.56	1.02	0.7	-	0.358	
1522C/1522	3	5	0.00	0.00	1	0.01	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---		5	0.00	0.00	1	0.01	--	-	-	---	
Habitat Means			2.07	2.07		2.09	2.61		+			0.20	0.20		0.00	0.00		+				10.82	8.52		15.57	15.75		+		
Fisher's		Power	0.016		Power-50%		0.019	P-value		0.319 y	Power	---		Power-50%		---	P-value		0.477		Power	0.068		Power-50%		0.068	P-value		0.179 y	
Stouffer's		Power	0.090		Power-50%		0.219	P-value		0.120	Power	---		Power-50%		---	P-value		0.311		Power	0.041		Power-50%		0.359	P-value		0.376	

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

Table C-3.8. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Site Pair	MVD	Antithamnion/Antithamnionella (A) (b) N	C	SE	N	O	SE	CV	D	P	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.37	0.37	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.07	0.07		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.363	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.370	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	0.00	0.00	6	6.51	4.25	1.0	-	0.186	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.27	0.27	1.5	-	0.360
453C/453	3	6	0.00	0.00	3	0.00	0.00	2.0	+	0.363	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.45	0.45	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		1.30	1.06		-			0.09	0.09		0.00	0.00		-			0.00	0.00		0.05	0.07		-	
Fisher's		Power	0.002		Power-50%		---	P-value		0.441	Power	---		Power-50%		---	P-value		0.375 y	Power	0.000		Power-50%		0.000	P-value		0.475
Stouffer's		Power	0.038		Power-50%		---	P-value		0.620	Power	---		Power-50%		---	P-value		0.261	Power	0.001		Power-50%		---	P-value		0.448

(b) Genera not separated.

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

Site Pair	MVD	Ceramium sp. (A) N	C	SE	N	O	SE	CV	D	P	Gloiosiphonia capillaris (A) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.40	0.40	1.4	-	0.633
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.67	0.67	1.6	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.21	0.21		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.296
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.259
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	38.32	38.32	6	1.46	1.45	1.2	+	0.735
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.83	1.66	6	1.49	1.30	0.9	+	0.872
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.16	0.16	4	1.03	1.03	1.0	-	0.433
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			8.06	8.03		0.80	0.76		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.003		Power-50%		0.003	P-value		0.447 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.024		Power-50%		0.000	P-value		0.231
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	5.26	2.85	6	68.92	61.95	1.3	-	0.511
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	1.69	1.20	3	0.00	0.00	1.4	+	0.108
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	46.17	38.28	6	0.58	0.58	1.0	+	0.184
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.51	0.39	6	1.56	1.02	0.7	-	0.359
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.01	--	-	-	---
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			10.73	8.54		14.21	15.89		+	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698	Power	0.099		Power-50%		0.099	P-value		0.170 y
Stouffer's		Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.500	Power	0.130		Power-50%		0.336	P-value		0.358

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

Table C-3.8. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Site Pair	MVD	Scagelia/Hollenbergia (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.58	1.58	1.4	-	0.363	6	0.00	0.00	6	1.58	1.58	1.4	-	0.363
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.32	0.32		-			0.00	0.00		0.32	0.32		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.315
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	3.22	3.22	1.6	-	0.655	5	0.00	0.00	6	3.22	3.22	1.6	-	0.655
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.82	5.17	6	0.50	0.50	1.2	+	0.493	6	5.82	5.17	6	0.50	0.50	1.2	+	0.493
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.25	0.25	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	2.08	2.07	1.1	-	0.204	6	0.00	0.00	4	2.08	2.07	1.1	-	0.204
Habitat Means			0.00	0.00		0.05	0.05		-			1.16	1.03		1.16	1.16		-			1.16	1.03		1.16	1.16		-	
Fisher's		Power	---		Power-50%		---	P-value		0.371	Power	0.001		Power-50%		0.004	P-value		0.429 y	Power	0.002		Power-50%		0.002	P-value		0.429 y
Stouffer's		Power	---		Power-50%		---	P-value		0.188	Power	0.007		Power-50%		0.018	P-value		0.515	Power	0.007		Power-50%		0.016	P-value		0.315
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	1.0	+	0.900	5	3.83	3.53	6	18.26	12.38	0.9	-	0.331	5	3.83	3.53	6	18.26	12.38	0.9	-	0.331
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	9.83	7.33	3	0.00	0.00	1.5	+	0.238	6	9.83	7.33	3	0.00	0.00	1.5	+	0.238
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.24	0.24	6	0.37	0.37	1.1	-	0.790	5	0.24	0.24	6	0.37	0.37	1.1	-	0.790
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.40	0.40	1.4	-	0.361	6	0.00	0.00	6	0.40	0.40	1.4	-	0.361
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	+	---
Habitat Means			0.00	0.00		0.00	0.00		+			2.78	2.22		3.81	3.29		-			2.78	2.22		3.81	3.29		-	
Fisher's		Power	---		Power-50%		---	P-value		0.675 y	Power	0.004		Power-50%		0.009	P-value		0.331	Power	0.004		Power-50%		0.004	P-value		0.331
Stouffer's		Power	---		Power-50%		---	P-value		0.493	Power	0.020		Power-50%		0.025	P-value		0.388	Power	0.020		Power-50%		0.026	P-value		0.388

(b) Genera not separated.

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

Site Pair	MVD	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Calcified Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.58	1.58	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.32	0.32		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	3.22	3.22	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.82	5.17	6	0.50	0.50	1.2	+	0.493	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	2.08	2.07	1.1	-	0.204	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
Habitat Means			0.00	0.00		0.00	0.00		-			1.16	1.03		1.16	1.16		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.542	Power	0.001		Power-50%		0.000	P-value		0.333 y	Power	---		Power-50%		---	P-value		0.550
Stouffer's		Power	---		Power-50%		---	P-value		0.451	Power	0.008		Power-50%		0.001	P-value		0.489	Power	---		Power-50%		---	P-value		0.429
4825C/1424	3	5	0.79	0.78	6	0.00	0.00	1.3	+	0.373	5	3.04	2.75	6	18.26	12.38	0.9	-	0.168	5	0.18	0.18	6	0.00	0.00	1.3	+	0.584
453C/453	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	9.83	7.33	3	0.00	0.00	1.5	+	0.238	6	0.58	0.58	3	0.00	0.00	2.0	+	0.363
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.24	0.24	6	0.37	0.37	1.1	-	0.790	5	0.83	0.83	6	0.53	0.53	1.0	+	0.764
598C/598	3	6	0.00	0.00	6	0.40	0.40	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	5	0.00	0.00	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---	5	1.94	1.94	1	0.00	--	-	+	---
Habitat Means			0.16	0.16		0.08	0.10		-			2.62	2.06		3.73	3.19		-			0.71	0.71		0.11	0.13		+	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.581 y	Power	0.007		Power-50%		0.023	P-value		0.233	Power	---		Power-50%		---	P-value		0.327
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.276	Power	0.025		Power-50%		0.060	P-value		0.367	Power	---		Power-50%		---	P-value		0.261

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

Table C-3.8. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

		Articulate Coralline Algae (A)								Clathromorphum recliniatum (P)																
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.550	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.429	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	3	5	0.18	0.18	6	0.00	0.00	1.3	+	0.584	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	3	6	0.03	0.03	3	0.00	0.00	2.0	+	0.363	6	0.55	0.55	3	0.00	0.00	2.0	+	0.363									
601C/601	3	5	0.83	0.83	6	0.53	0.53	1.0	+	0.764	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	3	5	1.94	1.94	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---									
Habitat Means			0.60	0.60		0.11	0.13		+			0.11	0.11		0.00	0.00		+									
Fisher's		Power	---		Power-50%		---	P-value		0.327	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.261	Power	---		Power-50%		---	P-value		0.311	Power	---		Power-50%		---	P-value		

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

Table C-3.9. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)							Total Algae							Perennials (P)						
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	1.00	0.45	6	0.00	0.00	0.6	+	0.076	6	1588.77	1237.94	6	0.00	0.00	1.1	+	0.256	6	1588.72	1237.94	6	0.00	0.00	1.1	+	0.256
453C/453	1	6	3.33	0.99	6	1.17	0.60	0.4	+	0.091	6	1589.15	563.50	6	92.30	60.57	0.5	+	0.137	6	1572.37	552.56	6	91.75	60.06	0.5	+	0.137
601C/601	1	6	1.00	0.68	6	2.00	1.18	0.6	-	0.481	6	392.99	256.84	6	1.73	1.05	0.9	+	0.943	6	392.99	256.84	6	1.71	1.03	0.9	+	0.942
598C/598	1	6	1.17	0.79	6	2.17	0.79	0.5	-	0.393	6	2.27	1.03	6	319.39	303.47	1.3	-	0.154	6	1.80	0.96	6	318.51	302.73	1.3	-	0.136
1522C/1522	1	6	1.00	0.26	6	4.00	1.51	0.4	-	0.104	6	1475.62	832.84	6	1211.56	685.09	0.6	+	0.812	6	1475.62	832.84	6	1179.61	674.59	0.6	+	0.788
Habitat Means			1.50	0.63		1.87	0.82		-			1009.76	578.43		325.00	210.04		-			1006.30	576.23		318.31	207.68		-	
Fisher's		Power	0.223		Power-50%		0.861	P-value		0.272x	Power	0.342		Power-50%		0.360	P-value		0.227	Power	0.323		Power-50%		0.323	P-value		0.225
Stouffer's		Power	0.000		Power-50%		0.914	P-value		0.492	Power	0.407		Power-50%		0.501	P-value		0.537	Power	0.373		Power-50%		0.445	P-value		0.555
4825C/1424	2	6	7.50	2.79	6	3.67	1.31	0.4	+	0.242	6	2460.01	1551.61	6	638.98	461.29	0.7	+	0.287	6	2301.64	1570.27	6	544.97	453.71	0.8	+	0.308
453C/453	2	6	7.33	2.22	6	4.33	0.76	0.3	+	0.229	6	1869.76	697.40	6	2492.66	607.32	0.3	-	0.516	6	1718.88	611.69	6	2467.00	598.26	0.3	-	0.402
601C/601	2	5	4.00	1.41	6	4.17	0.60	0.2	-	0.910	5	288.71	163.74	6	419.46	327.24	0.8	-	0.746	5	281.14	159.22	6	405.66	317.27	0.8	-	0.750
598C/598	2	6	2.67	1.41	6	4.33	1.02	0.4	-	0.360	6	580.11	561.11	6	1904.26	742.77	0.5	-	0.185	6	577.83	561.54	6	1542.58	635.36	0.6	-	0.282
1522C/1522	2	6	4.67	1.50	6	7.50	2.06	0.3	-	0.292	6	1184.08	551.98	6	3462.16	931.41	0.3	-	0.062	6	1127.02	563.62	6	2784.23	833.10	0.4	-	0.131
Habitat Means			5.23	1.86		4.80	1.15		-			1276.53	705.17		1783.50	614.01		-			1201.30	693.27		1548.89	567.54		-	
Fisher's		Power	0.107		Power-50%		0.869	P-value		0.499 y	Power	---		Power-50%		---	P-value		0.081	Power	0.093		Power-50%		0.093	P-value		0.137
Stouffer's		Power	0.017		Power-50%		0.904	P-value		0.439	Power	---		Power-50%		---	P-value		0.046	Power	---		Power-50%		---	P-value		0.064
4825C/1424	3	5	11.00	3.11	6	12.67	2.63	0.2	-	0.690	5	1101.84	527.15	6	1487.80	463.36	0.4	-	0.594	5	664.20	320.79	6	1031.58	314.31	0.5	-	0.577
453C/453	3	6	13.33	2.74	5	10.80	3.29	0.2	+	0.565	6	1269.97	539.03	5	2298.41	944.89	0.4	-	0.349	6	1131.25	554.48	5	2021.51	902.40	0.5	-	0.405
601C/601	3	5	6.20	1.62	6	10.50	1.48	0.2	-	0.082	5	908.51	531.18	6	1766.60	491.66	0.4	-	0.267	5	847.25	516.10	6	1390.97	420.80	0.4	-	0.430
598C/598	3	6	7.17	1.68	6	12.00	2.38	0.2	-	0.128	6	1396.53	593.96	6	1957.60	665.12	0.4	-	0.543	6	1187.15	566.80	6	1195.34	464.96	0.4	-	0.991
1522C/1522	3	6	8.67	2.32	6	15.50	1.82	0.2	-	0.043	6	1650.87	550.93	6	2550.67	580.42	0.3	-	0.287	6	1470.64	529.04	6	2083.85	599.11	0.3	-	0.461
Habitat Means			9.27	2.30		12.29	2.32		-			1265.54	548.45		2012.22	629.09		-			1060.10	495.44		1544.65	580.32		-	
Fisher's		Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.088	Power	0.117		Power-50%		0.117	P-value		0.218
Stouffer's		Power	---		Power-50%		0.900	P-value		0.040	Power	---		Power-50%		---	P-value		0.064	Power	0.113		Power-50%		0.328	P-value		0.194

(a) 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.

		Annuals (A)							Ephemerals (AE)															
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.05	0.05	6	0.00	0.00	1.4	+	0.363	6	0.05	0.05	6	0.00	0.00	1.4	-	0.363									
453C/453	1	6	16.78	14.26	6	0.55	0.55	1.2	+	0.428	6	15.37	14.24	6	0.44	0.43	1.3	-	0.467									
601C/601	1	6	0.01	0.01	6	0.03	0.02	1.0	-	0.505	6	0.00	0.00	6	0.02	0.02	1.2	-	0.446									
598C/598	1	6	0.47	0.47	6	0.88	0.75	0.9	-	0.648	6	0.00	0.00	6	0.12	0.08	0.9	-	0.178									
1522C/1522	1	6	0.00	0.00	6	31.95	20.08	0.9	-	0.087	6	0.00	0.00	6	22.90	19.58	1.2	-	0.092									
Habitat Means			3.46	2.96		6.68	4.28		-			3.09	2.86		4.70	4.02		-										
Fisher's		Power	0.008		Power-50%		0.032	P-value		0.275	Power	0.013		Power-50%		0.034	P-value		0.135	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.001		Power-50%		0.196	P-value		0.376	Power	0.000		Power-50%		0.193	P-value		0.144	Power	---		Power-50%		---	P-value		
4825C/1424	2	6	158.37	102.90	6	94.01	41.89	0.6	+	0.575	6	150.89	97.28	6	83.40	38.73	0.6	+	0.534									
453C/453	2	6	150.89	90.97	6	25.66	10.89	0.7	+	0.297	6	142.65	88.72	6	25.35	10.75	0.8	+	0.410									
601C/601	2	5	7.57	4.66	6	13.80	10.15	0.8	-	0.616	5	6.08	3.72	6	12.65	10.20	0.9	-	0.590									
598C/598	2	6	2.28	2.23	6	361.68	162.13	0.6	-	0.043	6	2.18	2.13	6	358.44	161.42	0.6	-	0.158									
1522C/1522	2	6	57.05	39.90	6	677.93	272.69	0.5	-	0.500	6	45.27	41.46	6	663.19	269.68	0.5	-	0.058									
Habitat Means			75.23	48.13		234.61	99.55		-			69.41	46.66		228.61	98.15		-										
Fisher's		Power	0.239		Power-50%		0.116	P-value		0.181	Power	0.195		Power-50%		0.142	P-value		0.109	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.282		Power-50%		0.202	P-value		0.116	Power	0.264		Power-50%		0.287	P-value		0.137	Power	---		Power-50%		---	P-value		
4825C/1424	3	5	437.65	287.03	6	456.22	141.20	0.5	-	0.952	5	343.85	289.20	6	250.29	107.30	0.7	+	0.752									
453C/453	3	6	138.72	50.93	5	276.90	104.28	0.4	-	0.239	6	19.51	5.41	5	240.14	84.93	0.4	-	0.060									
601C/601	3	5	61.25	25.94	6	375.63	83.71	0.3	-	0.009	5	42.65	21.18	6	278.05	88.08	0.4	-	0.042									
598C/598	3	6	209.38	113.98	6	762.26	255.69	0.4	-	0.077	6	128.06	116.45	6	461.52	169.48	0.5	-	0.136									
1522C/1522	3	6	180.23	86.69	6	466.83	101.34	0.3	-	0.057	6	82.04	55.61	6	359.86	122.53	0.4	-	0.066									
Habitat Means			205.45	112.91		467.57	137.25		-			123.22	97.57		317.97	114.46		-										
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		0.386	P-value		0.001	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		

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

Table C-3.10. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Elaled Greens								Kornmannia leptoderma (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
453C/453	1	6	0.00	0.00	6	0.12	0.12	1.4	-	0.407	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	1	6	0.41	0.41	6	0.76	0.76	1.0	-	0.696	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	1	6	0.00	0.00	6	9.74	8.74	1.3	-	0.316	6	0.00	0.00	6	0.20	0.20	1.4	-	0.359	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.08	0.08		2.12	1.92		-			0.00	0.00		0.04	0.04		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.016		Power-50%		---	P-value		0.302	Power	0.000		Power-50%		---	P-value		0.534	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.001		Power-50%		---	P-value		0.171	Power	0.000		Power-50%		---	P-value		0.424	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	4.20	3.27	6	20.49	20.48	1.2	-	0.659	6	0.48	0.48	6	0.00	0.00	1.4	+	0.626	6	0.00	0.00	6	0.00	0.00		- o	1.000
453C/453	2	6	4.88	3.02	6	0.79	0.44	0.8	+	0.877	6	1.59	1.01	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00		- o	1.000
601C/601	2	5	6.25	3.83	6	1.57	0.68	0.6	+	0.499	5	0.00	0.00	6	0.02	0.02	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	2	6	2.18	2.13	6	5.26	4.70	1.0	-	0.563	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	2	6	37.92	28.38	6	11.30	3.69	0.8	+	0.676	6	0.00	0.00	6	0.27	0.27	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			11.09	8.13		7.88	6.00		+			0.42	0.30		0.06	0.06		·			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.020		Power-50%		0.121	P-value		0.623	Power	0.014		Power-50%		0.024	P-value		0.497	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.050		Power-50%		0.236	P-value		0.573	Power	0.022		Power-50%		0.007	P-value		0.349	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	328.13	238.53	6	153.07	80.18	0.7	+	0.471	5	23.69	21.25	6	1.05	1.01	1.1	-	0.419	5	0.00	0.00	6	0.00	0.00		- o	1.000
453C/453	3	6	49.89	35.37	5	37.59	22.71	0.7	+	0.787	6	4.84	3.62	5	0.53	0.52	1.1	+	0.657	6	0.00	0.00	5	0.00	0.00		- o	1.000
601C/601	3	5	29.96	16.82	6	305.17	100.66	0.5	-	0.167	5	0.00	0.00	6	1.51	1.26	1.3	-	0.285	5	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	3	6	89.19	41.78	6	445.83	187.51	0.5	-	0.534	6	0.03	0.03	6	11.95	6.51	0.8	-	0.042	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	3	6	107.62	62.86	6	121.65	94.31	0.7	-	0.904	6	0.00	0.00	6	6.81	2.97	0.6	-	0.027	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			120.96	79.07		212.66	97.07		-			5.71	4.98		4.37	2.45		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.036		Power-50%		0.152	P-value		0.378	Power	---		Power-50%		---	P-value		0.018	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.060		Power-50%		0.221	P-value		0.279	Power	---		Power-50%		---	P-value		0.026	Power	---		Power-50%		---	P-value		0.500

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	1	6	0.00	0.00	6	0.20	0.20	1.4	-	0.359	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.04	0.04		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.534	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		---	P-value		0.424	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.48	0.48	6	0.00	0.00	1.4	+	0.363	6	0.48	0.48	6	0.00	0.00	1.4	+	0.363
453C/453	2	6	0.76	0.76	6	0.00	0.00	1.4	+	0.363	6	0.83	0.83	6	0.00	0.00	1.4	+	0.363	6	0.83	0.83	6	0.00	0.00	1.4	+	0.363
601C/601	2	5	0.00	0.00	6	0.02	0.02	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.27	0.27	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.15	0.15		0.00	0.00		-			0.26	0.26		0.05	0.05		+			0.26	0.26		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.441 y	Power	---		Power-50%		---	P-value		0.441	Power	---		Power-50%		---	P-value		0.359
Stouffer's		Power	---		Power-50%		---	P-value		0.558	Power	---		Power-50%		---	P-value		0.337	Power	---		Power-50%		---	P-value		0.271
4825C/1424	3	5	20.07	20.06	6	0.15	0.15	1.3	+	0.303	5	3.62	2.24	6	0.90	0.86	0.7	+	0.255	5	2.28	1.97	6	0.90	0.86	0.9	+	0.511
453C/453	3	6	0.39	0.39	5	0.32	0.32	1.0	+	0.890	6	4.45	3.69	5	0.21	0.20	1.2	+	1.000	6	4.45	3.69	5	0.21	0.20	1.2	+	1.000
601C/601	3	5	0.00	0.00	6	1.46	1.27	1.4	-	0.303	5	0.00	0.00	6	0.05	0.05	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	3	6	0.00	0.00	6	3.55	3.49	1.4	-	0.355	6	0.03	0.03	6	8.40	6.43	1.1	-	0.252	6	0.03	0.03	6	2.95	1.83	0.9	-	0.162
1522C/1522	3	6	0.00	0.00	6	4.20	1.99	0.7	-	0.024	6	0.00	0.00	6	2.60	1.99	1.1	-	0.110	6	0.00	0.00	6	2.05	1.52	1.0	-	0.266
Habitat Means			4.09	4.09		1.94	1.45		-			1.62	1.19		2.43	1.90		-			1.35	1.14		1.22	0.88		-	
Fisher's		Power	---		Power-50%		---	P-value		0.063 y	Power	---		Power-50%		---	P-value		0.099	Power	0.023		Power-50%		0.023	P-value		0.258 y
Stouffer's		Power	0.125		Power-50%		0.001	P-value		0.114	Power	---		Power-50%		---	P-value		0.067	Power	0.025		Power-50%		0.248	P-value		0.110

(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-3.10. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.12	0.12	1.4 -	0.407	6	0.00	0.00	6	0.12	0.12	1.4 -	0.680
601C/601	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	1.0 o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.41	0.41	6	0.76	0.76	1.0 -	0.696	6	0.41	0.41	6	0.76	0.76	1.0 -	0.697
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	9.54	8.78	1.3 -	0.327	6	0.00	0.00	6	8.89	8.89	1.4 -	0.363
Habitat Means			0.00	0.00		0.00	0.00	o			0.08	0.08		2.08	1.93	-			0.08	0.08		1.95	1.95	-	
Fisher's		Power	---		Power-50%		---	P-value	0.732	Power	0.007		Power-50%		---	P-value	0.306	Power	---		Power-50%		---	P-value	0.402
Stouffer's		Power	---		Power-50%		---	P-value	0.500	Power	0.000		Power-50%		---	P-value	0.172	Power	---		Power-50%		---	P-value	0.239
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	3.68	2.80	6	20.49	20.48	1.2 -	0.491	6	1.67	1.07	6	0.00	0.00	0.9 -	0.180
453C/453	2	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	3.29	2.06	6	0.79	0.44	0.7 +	0.918	6	2.23	1.49	6	0.30	0.23	0.8 +	0.816
601C/601	2	5	0.00	0.00	6	0.00	0.00	- o	1.000	5	6.25	3.83	6	1.55	0.69	0.6 +	0.522	5	0.00	0.00	6	0.88	0.66	1.2 -	0.356
598C/598	2	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	2.17	2.13	6	5.26	4.70	1.0 -	0.563	6	0.00	0.00	6	0.00	0.00	1.4 -	0.363
1522C/1522	2	6	0.00	0.00	6	0.27	0.27	1.4 -	0.363	6	37.92	28.38	6	11.03	3.61	0.8 +	0.678	6	8.31	8.08	6	9.15	3.14	0.7 -	0.925
Habitat Means			0.00	0.00		0.05	0.05	-			10.66	7.84		7.82	5.98	+			2.44	2.13		2.07	0.81	-	
Fisher's		Power	---		Power-50%		---	P-value	0.536	Power	0.019		Power-50%		0.158	P-value	0.665	Power	0.014		Power-50%		0.014	P-value	0.472 y
Stouffer's		Power	---		Power-50%		---	P-value	0.425	Power	0.042		Power-50%		0.280	P-value	0.601	Power	0.000		Power-50%		0.204	P-value	0.265
4825C/1424	3	5	1.34	1.34	6	0.00	0.00	1.3 +	0.374	5	303.16	217.94	6	151.03	80.88	0.7 +	0.499	5	65.21	64.65	6	13.13	11.94	1.1 +	0.555
453C/453	3	6	0.00	0.00	5	0.00	0.00	- o	1.000	6	45.05	35.84	5	36.97	22.22	0.8 +	0.860	6	36.69	35.07	5	33.19	22.44	0.9 +	0.938
601C/601	3	5	0.00	0.00	6	0.05	0.05	1.6 -	0.363	5	29.96	16.82	6	303.20	100.11	0.5 -	0.167	5	17.73	17.73	6	89.73	89.73	1.3 -	0.968
598C/598	3	6	0.00	0.00	6	5.45	4.64	1.2 -	0.293	6	86.89	42.08	6	433.87	186.90	0.5 -	0.526	6	73.54	43.34	6	290.64	130.93	0.5 -	0.147
1522C/1522	3	6	0.00	0.00	6	0.55	0.49	1.3 -	0.315	6	107.38	62.81	6	114.85	92.69	0.7 -	0.948	6	82.12	62.21	6	16.46	15.22	0.9 +	0.920
Habitat Means			0.27	0.27		1.21	1.04	-			114.49	75.10		207.98	96.56	-			55.06	44.60		88.63	54.05	+	
Fisher's		Power	0.009		Power-50%		---	P-value	0.238	Power	0.021		Power-50%		0.249	P-value	0.371	Power	0.008		Power-50%		0.008	P-value	0.715 y
Stouffer's		Power	0.000		Power-50%		---	P-value	0.133	Power	0.033		Power-50%		0.352	P-value	0.262	Power	0.017		Power-50%		0.251	P-value	0.840

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV D	P	Chaetomorpha melagonium (A) N	C	SE	N	O	SE	CV D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
Habitat Means			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o	
Fisher's		Power	---		Power-50%		---	P-value	0.732	Power	---		Power-50%		---	P-value	0.732	Power	---		Power-50%		---	P-value	0.732
Stouffer's		Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500
4825C/1424	2	6	0.95	0.95	6	0.00	0.00	1.4 +	0.363	6	0.95	0.95	6	0.00	0.00	1.4 +	0.363	6	0.00	0.00	6	0.00	0.00	1.4 +	0.363
453C/453	2	6	0.20	0.15	6	0.00	0.00	1.0 +	0.232	6	0.20	0.15	6	0.00	0.00	1.0 +	0.232	6	0.00	0.00	6	0.00	0.00	- o	1.000
601C/601	2	5	0.21	0.21	6	0.00	0.00	1.3 +	0.374	5	0.21	0.21	6	0.00	0.00	1.3 +	0.374	5	0.00	0.00	6	0.00	0.00	- o	1.000
598C/598	2	6	0.02	0.02	6	0.00	0.00	1.4 +	0.363	6	0.02	0.02	6	0.00	0.00	1.4 +	0.363	6	0.00	0.00	6	0.00	0.00	- o	1.000
1522C/1522	2	6	0.00	0.00	6	0.13	0.10	1.1 -	0.253	6	0.00	0.00	6	0.13	0.10	1.1 -	0.253	6	0.00	0.00	6	0.00	0.00	- o	1.000
Habitat Means			0.28	0.27		0.03	0.02	-			0.28	0.27		0.03	0.02	+			0.00	0.00		0.00	0.00	-	
Fisher's		Power	0.064		Power-50%		0.030	P-value	0.141	Power	0.056		Power-50%		0.039	P-value	0.141	Power	---		Power-50%		---	P-value	0.536
Stouffer's		Power	---		Power-50%		0.158	P-value	0.076	Power	---		Power-50%		---	P-value	0.076	Power	---		Power-50%		---	P-value	0.450
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	1.0 +	0.900	5	0.00	0.00	6	0.00	0.00	- o	1.000	5	0.00	0.00	6	0.00	0.00	1.0 +	0.900
453C/453	3	6	0.01	0.01	5	0.36	0.36	1.2 -	0.710	6	0.01	0.01	5	0.36	0.36	1.2 -	0.710	6	0.00	0.00	5	0.00	0.00	- o	1.000
601C/601	3	5	0.05	0.05	6	0.12	0.11	1.1 -	0.634	5	0.05	0.05	6	0.12	0.11	1.1 -	0.634	5	0.00	0.00	6	0.00	0.00	- o	1.000
598C/598	3	6	0.00	0.00	6	0.09	0.09	1.4 -	0.363	6	0.00	0.00	6	0.09	0.09	1.4 -	0.363	6	0.00	0.00	6	0.00	0.00	- o	1.000
1522C/1522	3	6	0.12	0.12	6	0.47	0.47	1.2 -	0.923	6	0.00	0.00	6	0.46	0.45	1.4 -	0.431	6	0.12	0.12	6	0.02	0.02	1.2 +	0.823
Habitat Means			0.04	0.04		0.21	0.21	-			0.01	0.01		0.20	0.20	-			0.02	0.02		0.00	0.00	+	
Fisher's		Power	0.026		Power-50%		0.012	P-value	0.396	Power	0.010		Power-50%		---	P-value	0.270	Power	0.000		Power-50%		0.000	P-value	0.674
Stouffer's		Power	0.067		Power-50%		0.122	P-value	0.155	Power	0.000		Power-50%		---	P-value	0.120	Power	0.003		Power-50%		---	P-value	0.475

(b) Chaetomorpha melagonium not included.

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

Table C-3.10. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

Site Pair	MVD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Gomontia polyrhiza (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.65	0.65	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.13	0.13		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.223	Power	---			Power-50%	---	P-value		0.536	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.084	Power	---			Power-50%	---	P-value		0.425	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	6	1.06	0.94	6	20.49	20.48	1.3	-	0.606	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.86	0.62	6	0.49	0.34	0.7	+	0.605	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	5	6.04	3.70	6	0.67	0.53	0.7	+	0.911	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	2.15	2.11	6	5.26	4.70	1.0	-	0.560	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	29.61	28.74	6	1.76	1.57	1.3	+	0.894	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			7.94	7.22		5.73	5.52		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.035			Power-50%	0.245	P-value		0.730	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.073			Power-50%	0.424	P-value		0.578	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	3	5	237.95	223.44	6	137.89	83.63	0.8	+	0.663	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	6	8.34	4.83	5	3.42	2.92	0.7	+	0.430	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	5	12.18	8.72	6	213.35	94.24	0.7	-	0.121	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	13.34	6.52	6	143.14	71.63	0.7	-	0.152	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	25.14	23.61	6	97.91	94.50	1.1	-	0.709	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			59.39	53.42		119.14	69.38		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.046			Power-50%	0.213	P-value		0.167	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.059			Power-50%	0.372	P-value		0.142	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500

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

Site Pair	MVD	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	6	0.04	0.04	6	0.00	0.00	1.2	+	0.245	6	0.04	0.04	6	0.00	0.00	1.2	-	0.245	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	0.000			Power-50%	0.001	P-value		0.301	Power	0.000			Power-50%	0.001	P-value		0.301	Power	---			Power-50%	---	P-value		0.536
Stouffer's		Power	0.025			Power-50%	0.000	P-value		0.193	Power	0.030			Power-50%	0.000	P-value		0.193	Power	---			Power-50%	---	P-value		0.450
4825C/1424	3	5	1.28	0.83	6	0.99	0.99	0.8	+	0.834	5	1.28	0.83	6	0.99	0.99	0.8	+	0.834	5	1.12	0.70	6	0.00	0.00	0.8	-	0.203
453C/453	3	6	0.00	0.00	5	0.09	0.09	1.2	-	0.323	6	0.00	0.00	5	0.09	0.09	1.2	-	0.323	6	0.00	0.00	5	0.06	0.06	1.3	-	0.374
601C/601	3	5	0.00	0.00	6	0.46	0.46	1.6	-	0.363	5	0.00	0.00	6	0.46	0.46	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	2.26	1.90	6	0.00	0.00	1.2	+	0.192	6	2.26	1.90	6	0.00	0.00	1.2	+	0.192	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.24	0.23	6	0.00	0.00	1.4	+	0.356	6	0.24	0.23	6	0.00	0.00	1.4	+	0.356	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.76	0.59		0.31	0.31		+			0.76	0.59		0.31	0.31		+			0.22	0.14		0.01	0.01		+	
Fisher's		Power	0.028			Power-50%	0.094	P-value		0.386	Power	0.031			Power-50%	0.080	P-value		0.386	Power	0.030			Power-50%	0.030	P-value		0.518
Stouffer's		Power	0.084			Power-50%	0.255	P-value		0.309	Power	0.080			Power-50%	0.262	P-value		0.309	Power	0.116			Power-50%	0.000	P-value		0.616

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

Table C-3.10. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

		Enteromorpha clathrata (AE)								Enteromorpha intestinalis (AE)													
Site Pair	MTD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P				
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o					
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---	Power-50%	--- P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---	Power-50%	--- P-value
4825C/1424	2	6	0.04	0.04	6	0.00	0.00	1.3	+	0.263	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000				
598C/598	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000				
Habitat Means			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o					
Fisher's		Power	0.000		Power-50%		0.001	P-value		0.311	Power	---		Power-50%		---	P-value		0.732	Power	---	Power-50%	--- P-value
Stouffer's		Power	0.025		Power-50%		0.000	P-value		0.195	Power	---		Power-50%		---	P-value		0.500	Power	---	Power-50%	--- P-value
4825C/1424	3	5	0.10	0.10	6	0.99	0.99	1.4	-	0.962	5	0.06	0.06	6	0.00	0.00	1.3	+	0.374				
453C/453	3	6	0.00	0.00	5	0.03	0.03	1.1	-	0.342	6	0.00	0.00	5	0.00	0.00	-	o	1.000				
601C/601	3	5	0.00	0.00	6	0.46	0.46	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000				
598C/598	3	6	2.26	1.90	6	0.00	0.00	1.2	+	0.108	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363				
1522C/1522	3	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.24	0.23	6	0.00	0.00	1.4	+	0.360				
Habitat Means			0.47	0.40		0.30	0.30		-			0.06	0.06		0.00	0.00		+					
Fisher's		Power	0.001		Power-50%		0.033	P-value		0.540 y	Power	0.000		Power-50%		0.000	P-value		0.444	Power	---	Power-50%	--- P-value
Stouffer's		Power	0.002		Power-50%		0.145	P-value		0.763	Power	0.001		Power-50%		0.000	P-value		0.653	Power	---	Power-50%	--- P-value

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

Table C-3.11. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus gardneri (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	1588.77	1237.94	6	0.00	0.00	1.1	+	0.256	6	1588.72	1237.94	6	0.00	0.00	1.1	+	0.256	6	1588.72	1237.94	6	0.00	0.00	1.1	+	0.256
453C/453	1	6	1569.72	557.06	6	92.19	60.46	0.5	+	0.138	6	1552.95	545.88	6	91.75	60.06	0.5	+	0.138	6	1552.95	545.88	6	91.75	60.06	0.5	+	0.138
601C/601	1	6	392.98	256.84	6	1.72	1.04	0.9	+	0.943	6	392.98	256.84	6	1.70	1.03	0.9	+	0.942	6	392.98	256.84	6	1.70	1.03	0.9	+	0.942
598C/598	1	6	1.81	0.96	6	318.62	302.71	1.3	-	0.136	6	1.80	0.96	6	318.50	302.73	1.3	-	0.136	6	1.80	0.96	6	318.50	302.73	1.3	-	0.136
1522C/1522	1	6	1475.62	832.84	6	1159.43	641.82	0.6	+	0.770	6	1475.62	832.84	6	1137.23	639.16	0.6	+	0.754	6	1475.62	832.84	6	1137.23	639.16	0.6	+	0.754
Habitat Means			1005.78	577.13		314.39	201.21		+			1002.41	574.89		309.84	200.60		+			1002.41	574.89		309.84	200.60		-	
Fisher's		Power	0.338		Power-50%		0.341	P-value		0.222	Power	0.317		Power-50%		0.351	P-value		0.220	Power	0.323		Power-50%		0.323	P-value		0.220
Stouffer's		Power	0.383		Power-50%		0.509	P-value		0.553	Power	0.384		Power-50%		0.508	P-value		0.552	Power	0.380		Power-50%		0.462	P-value		0.552
4825C/1424	2	6	2417.38	1558.59	6	618.08	466.34	0.8	+	0.295	6	2267.98	1577.12	6	644.75	453.76	0.8	+	0.318	6	2267.82	1577.16	6	644.75	453.76	0.8	+	0.319
453C/453	2	6	1762.77	695.98	6	2457.62	586.51	0.3	-	0.463	6	1620.42	610.34	6	2432.75	577.55	0.3	-	0.357	6	1620.42	610.34	6	2432.75	577.55	0.3	-	0.357
601C/601	2	5	224.65	136.89	6	335.34	245.59	0.8	-	0.719	5	223.58	136.29	6	323.17	236.00	0.7	-	0.738	5	223.58	136.29	6	323.17	236.00	0.7	-	0.738
598C/598	2	6	577.83	561.55	6	1892.15	742.07	0.5	-	0.188	6	577.73	561.56	6	1536.60	634.38	0.6	-	0.284	6	577.73	561.56	6	1536.60	634.38	0.6	-	0.284
1522C/1522	2	6	1075.18	562.37	6	2598.94	781.40	0.4	-	0.145	6	1058.22	566.58	6	1934.62	800.46	0.5	-	0.393	6	1058.22	566.58	6	1934.62	800.46	0.5	-	0.393
Habitat Means			1211.56	703.08		1580.42	564.38		-			1149.59	690.38		1354.38	540.43		-			1149.55	690.39		1354.38	540.43		-	
Fisher's		Power	0.147		Power-50%		0.210	P-value		0.123	Power	0.062		Power-50%		0.161	P-value		0.227	Power	0.059		Power-50%		0.059	P-value		0.227
Stouffer's		Power	---		Power-50%		0.293	P-value		0.049	Power	---		Power-50%		---	P-value		0.075	Power	---		Power-50%		---	P-value		0.075
4825C/1424	3	5	740.53	333.20	6	944.80	518.30	0.5	-	0.760	5	639.66	310.30	6	767.80	540.75	0.7	-	0.850	5	639.52	310.25	6	767.80	540.75	0.7	-	0.850
453C/453	3	6	396.70	211.25	5	2181.47	956.04	0.5	-	0.164	6	373.62	209.93	5	1944.34	914.01	0.5	-	0.245	6	373.03	210.14	5	1944.34	914.02	0.5	-	0.235
601C/601	3	5	530.94	420.23	6	1322.25	415.80	0.5	-	0.217	5	499.96	397.53	6	1255.42	422.12	0.5	-	0.231	5	499.96	397.53	6	1255.42	422.12	0.5	-	0.231
598C/598	3	6	1241.08	547.13	6	1457.05	474.54	0.4	-	0.772	6	1123.67	562.60	6	1143.24	440.55	0.4	-	0.979	6	1123.17	562.72	6	1142.85	440.37	0.4	-	0.979
1522C/1522	3	6	1307.37	540.98	6	1515.33	533.66	0.4	-	0.790	6	1236.97	523.83	6	1253.70	469.32	0.4	-	0.982	6	1236.97	523.83	6	1253.70	469.32	0.4	-	0.982
Habitat Means			843.32	410.56		1484.18	579.67		-			774.77	400.84		1272.90	557.35		-			774.53	400.89		1272.82	557.31		-	
Fisher's		Power	0.317		Power-50%		0.151	P-value		0.127	Power	0.191		Power-50%		0.153	P-value		0.220	Power	0.194		Power-50%		0.194	P-value		0.215
Stouffer's		Power	---		Power-50%		0.245	P-value		0.089	Power	0.105		Power-50%		0.218	P-value		0.172	Power	0.102		Power-50%		0.215	P-value		0.169

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

		Petalonia fascia (AE)								Total Punctaria (AE)								Punctaria spp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
601C/601	2	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	2	6	*0.00*	*0.00*	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.03	0.03		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	0.14	0.14	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
453C/453	3	6	0.58	0.58	5	0.00	0.00	1.6	+	0.705	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
601C/601	3	5	*0.00*	*0.00*	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
598C/598	3	6	0.50	0.50	6	0.38	0.36	1.0	+	0.854	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1522C/1522	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.24	0.24		0.08	0.07		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.448	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.007		Power-50%		---	P-value		0.320	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.11. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

Site Pair	MVD	Punctaria lobata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Cystoseira geminata (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.40	1.25	6	0.00	0.00	1.3	+	0.313	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.03	0.03	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.28	0.25		0.01	0.01		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.000	P-value		0.503	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.001	P-value		0.200	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.26	0.15	6	10.42	6.58	0.9	-	0.664	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.15	1.49	6	0.00	0.00	1.0	+	0.110	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.02	0.02	6	0.04	0.04	1.1	-	0.669	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.07	0.07	6	2.37	1.54	0.9	-	0.382	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.30	1.28	6	3.13	2.16	0.8	-	0.483	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.76	0.60		3.19	2.07		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.023		Power-50%		0.258	P-value		0.385	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.061		Power-50%		0.514	P-value		0.447	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	20.08	13.89	6	66.59	53.53	1.0	-	0.462	5	2.62	2.62	6	0.00	0.00	1.3	-	0.374
453C/453	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	16.29	7.57	5	0.87	0.63	0.7	+	0.104	6	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.10	0.10	6	3.77	1.41	0.6	-	0.006	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.30	2.70	6	7.78	5.19	0.6	-	0.681	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	13.73	11.68	6	0.86	0.83	1.1	-	0.532	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			11.10	7.19		15.97	12.32		-			0.52	0.52		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.067	Power	---		Power-50%		---	P-value		0.542
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.005		Power-50%		0.285	P-value		0.475	Power	---		Power-50%		---	P-value		0.451

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

Site Pair	MVD	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.03	0.03	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.03	0.03	6	0.00	0.00	1.4	+	0.363
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	5	0.00	0.00	6	0.02	0.02	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.02	0.02	1.6	-	0.363
598C/598	2	6	0.04	0.04	6	0.00	0.00	1.4	+	0.736	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.04	0.04	6	0.00	0.00	1.4	+	0.736
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.01	0.01		0.00	0.00		·	
Fisher's		Power	---		Power-50%		---	P-value		0.572	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.572
Stouffer's		Power	---		Power-50%		---	P-value		0.430	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.430
4825C/1424	3	5	14.69	14.29	6	0.00	0.00	1.2	+	0.064	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	14.69	14.29	6	0.00	0.00	1.2	-	0.064
453C/453	3	6	0.01	0.01	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.01	0.01	5	0.00	0.00	1.6	+	0.363
601C/601	3	5	0.04	0.04	6	0.80	0.69	1.3	-	0.299	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.04	0.04	6	0.80	0.69	1.3	-	0.299
598C/598	3	6	0.15	0.15	6	4.05	4.05	1.4	-	0.423	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.15	0.15	6	4.05	4.05	1.4	-	0.423
1522C/1522	3	6	1.20	1.20	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.20	1.20	6	0.00	0.00	1.4	+	0.363
Habitat Means			3.22	3.14		0.97	0.95		+			0.00	0.00		0.00	0.00		o			3.22	3.14		0.97	0.95		·	
Fisher's		Power	0.017		Power-50%		0.059	P-value		0.151	Power	---		Power-50%		---	P-value		0.732	Power	0.018		Power-50%		0.018	P-value		0.151
			0.105				0.190			0.474											0.097				0.188			0.474

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

Table C-3.11. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

		Eudesme virescens (AE)								Myelophycus/Scytosiphon (A) (a)								Morphological Group - Fine Filamentous Browns							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.05	0.05	6	0.00	0.00	1.4	+	0.363
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.40	1.25	6	0.00	0.00	1.3	+	0.313	6	15.37	14.24	6	0.44	0.43	1.3	+	0.443
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.02	0.02	1.3	-	0.319
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.12	0.08	0.9	-	0.178
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.03	0.03	1.4	-	0.363	6	0.00	0.00	6	22.05	19.48	1.2	-	0.309
Habitat Means			0.00	0.00		0.00	0.00		o			0.28	0.25		0.01	0.01		·			3.09	2.86		4.53	4.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.000	P-value		0.503	Power	0.013		Power-50%		0.013	P-value		0.215
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.200	Power	0.001		Power-50%		0.005	P-value		0.170
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.22	0.15	6	10.42	6.58	0.9	-	0.403	6	149.14	95.93	6	62.91	39.33	0.7	+	0.425
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.15	1.49	6	0.00	0.00	1.0	+	0.110	6	140.19	87.64	6	24.87	10.65	0.8	+	0.792
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.02	0.02	6	0.02	0.02	1.0	-	0.974	5	0.03	0.03	6	11.96	9.68	1.3	-	0.372
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.04	0.03	6	2.37	1.54	0.9	-	0.369	6	0.02	0.02	6	353.18	158.55	0.6	-	0.029
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.30	1.28	6	3.13	2.16	0.8	-	0.483	6	15.66	12.85	6	661.17	269.99	0.6	-	0.047
Habitat Means			0.00	0.00		0.00	0.00		o			0.75	0.60		3.19	2.06		-			61.01	39.29		222.82	97.64		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.028		Power-50%		0.283	P-value		0.359	Power	---		Power-50%		---	P-value		0.022
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.070		Power-50%		0.522	P-value		0.453	Power	---		Power-50%		---	P-value		0.019
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.77	2.62	6	66.59	53.53	1.2	-	0.118	5	80.79	46.87	6	110.35	83.80	0.8	-	0.778
453C/453	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	16.28	7.55	5	0.87	0.63	0.7	+	0.104	6	5.74	2.82	5	236.10	86.27	0.5	-	0.034
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.06	0.06	6	2.97	1.49	0.8	-	0.007	5	30.47	23.60	6	62.73	26.21	0.5	-	0.393
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.15	2.75	6	3.72	1.97	0.5	+	0.682	6	111.92	110.93	6	306.03	154.91	0.6	-	0.332
1522C/1522	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	12.53	11.82	6	0.86	0.83	1.3	+	0.568	6	56.67	54.21	6	255.14	120.03	0.6	-	0.163
Habitat Means			0.00	0.00		0.00	0.00		o			7.36	4.96		15.00	11.69		+			57.12	47.69		194.07	94.24		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.029		Power-50%		0.189	P-value		0.381xy	Power	---		Power-50%		---	P-value		0.016
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.008		Power-50%		0.327	P-value		0.322	Power	---		Power-50%		---	P-value		0.008

(a) Genera not separated.

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

		Ectocarpus sp. (AE)								Elachista fucicola (AE)								Pilayella sp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.05	0.05	6	0.00	0.00	1.4	+	0.363
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	15.37	14.24	6	0.44	0.43	1.3	+	0.443
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.02	0.02	1.4	-	0.363
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.09	0.08	1.2	-	0.424
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	22.04	19.48	1.2	-	0.309
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			3.08	2.86		4.52	4.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.531 y	Power	0.003		Power-50%		0.003	P-value		0.346
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.417	Power	0.000		Power-50%		0.002	P-value		0.305
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.27	0.27	1.4	-	0.395	6	148.19	95.17	6	62.64	39.39	0.7	-	0.426
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.04	0.04	6	0.00	0.00	1.4	+	0.343	6	139.35	87.84	6	24.87	10.64	0.8	-	0.799
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	11.96	9.68	1.3	-	0.272
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.02	0.02	6	351.88	157.83	0.6	-	0.029
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	13.48	13.05	6	650.00	265.61	0.6	-	0.036
Habitat Means			0.00	0.00		0.00	0.00		o			0.01	0.01		0.05	0.05		+			60.21	39.21		220.27	96.63		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.002	P-value		0.522 y	Power	---		Power-50%		---	P-value		0.015
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.003	P-value		0.546	Power	---		Power-50%		---	P-value		0.016
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	0.8	-	0.662	5	77.59	44.28	6	106.99	83.84	0.8	-	0.778
453C/453	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	3.65	1.67	5	235.65	86.04	0.5	-	0.021
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.03	0.03	1.6	-	0.363	5	30.44	23.61	6	60.43	25.83	0.6	-	0.422
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.12	1.12	6	1.70	1.26	0.8	-	0.737	6	110.77	109.81	6	299.52	155.10	0.7	-	0.344
1522C/1522	3	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	28.23	25.79	6	253.63	120.37	0.6	-	0.054
Habitat Means			0.00	0.00		0.00	0.00		+			0.23	0.23		0.35	0.26		-			50.13	41.03		191.24	94.24		-	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	0.001		Power-50%		---	P-value		0.494	Power	---		Power-50%		---	P-value		0.006
Stouffer's		Power	---		Power-50%		---	P-value		0.425	Power	0.012		Power-50%		---	P-value		0.480	Power	---		Power-50%		---	P-value		0.005

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

Table C-3.11. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.03	0.03	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.01	0.01	1.4	-	0.363	6	0.00	0.00	6	0.12	0.12	1.4	-	0.363	6	0.00	0.00	6	0.12	0.12	1.4	-	0.363
Habitat Means			0.00	0.00		0.01	0.01		-			0.00	0.00		0.02	0.02		-			0.00	0.00		0.02	0.02		-	
Fisher's		Power	---		Power-50%		---	P-value		0.284	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.267	Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.425
4825C/1424	2	6	0.95	0.95	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.80	0.80	6	0.00	0.00	1.4	+	0.611	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
601C/601	2	5	0.03	0.03	6	0.00	0.00	1.2	+	0.341	5	1.02	0.72	6	0.17	0.17	0.8	+	0.399	5	1.02	0.72	6	0.17	0.17	0.8	+	0.399
598C/598	2	6	0.00	0.00	6	1.30	1.30	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	2.18	2.18	6	12.17	10.41	1.1	-	0.530	6	0.00	0.00	6	0.02	0.02	1.2	-	0.448	6	0.00	0.00	6	0.02	0.02	1.2	-	0.448
Habitat Means			0.79	0.79		2.49	2.34		+			0.21	0.15		0.04	0.04		+			0.20	0.15		0.04	0.04		+	
Fisher's		Power	0.001		Power-50%		0.009	P-value		0.411 y	Power	0.010		Power-50%		0.125	P-value		0.329	Power	0.002		Power-50%		0.002	P-value		0.448
Stouffer's		Power	0.013		Power-50%		0.178	P-value		0.587	Power	0.000		Power-50%		0.300	P-value		0.224	Power	0.000		Power-50%		0.125	P-value		0.302
4825C/1424	3	5	3.20	2.83	6	3.36	1.67	0.7	-	0.961	5	0.00	0.00	6	0.07	0.07	1.5	-	0.350	5	0.00	0.00	6	0.07	0.07	1.5	-	0.350
453C/453	3	6	2.09	1.47	5	0.45	0.34	0.9	+	0.345	6	1.04	1.03	5	0.16	0.16	1.3	+	0.767	6	0.72	0.72	5	0.08	0.08	1.4	-	0.771
601C/601	3	5	0.03	0.03	6	2.26	0.81	0.5	-	0.042	5	0.40	0.27	6	0.33	0.33	0.8	-	0.877	5	0.40	0.27	6	0.33	0.33	0.8	-	0.877
598C/598	3	6	0.03	0.03	6	4.81	2.42	0.7	-	0.147	6	0.20	0.20	6	0.00	0.00	1.4	-	0.363	6	0.20	0.20	6	0.00	0.00	1.4	-	0.363
1522C/1522	3	6	28.44	28.44	6	1.51	0.98	1.3	+	0.235	6	0.00	0.00	6	3.68	2.35	0.9	-	0.397	6	0.00	0.00	6	3.68	2.35	0.9	-	0.397
Habitat Means			6.76	6.56		2.48	1.24		-			0.33	0.30		0.85	0.58		-			0.27	0.24		0.83	0.57		-	
Fisher's		Power	0.141		Power-50%		0.109	P-value		0.130 y	Power	0.004		Power-50%		0.060	P-value		0.648 y	Power	0.003		Power-50%		0.003	P-value		0.649 y
Stouffer's		Power	0.187		Power-50%		0.319	P-value		0.196	Power	0.000		Power-50%		0.268	P-value		0.277	Power	0.000		Power-50%		0.277	P-value		0.278

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

Site Pair	MVD	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia fungiformis (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	6	0.32	0.32	5	0.08	0.08	1.2	+	0.518	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.95	1.27	0.9	-	0.185	6	0.00	0.00	6	1.95	1.27	0.9	-	0.185
Habitat Means			0.06	0.06		0.02	0.02		,			0.00	0.00		0.39	0.25		-			0.00	0.00		0.39	0.25		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.605	Power	0.002		Power-50%		---	P-value		0.414	Power	0.002		Power-50%		0.002	P-value		0.414
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.366	Power	0.000		Power-50%		---	P-value		0.391	Power	0.000		Power-50%		---	P-value		0.391

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

Table C-3.12. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

			Total Rhodophyta							Morphological Group - Bladed Reds								Constantinea simplex (P)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	19.42	19.26	6	0.00	0.00	1.4	+	0.359	6	0.07	0.07	6	0.00	0.00	1.4	+	0.350	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.01	0.00	6	0.01	0.01	0.7	-	0.615	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.05	0.05	6	0.01	0.00	1.3	+	0.855	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	42.39	37.83	1.3	-	0.105	6	0.00	0.00	6	0.09	0.08	1.4	-	0.353	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			3.90	3.86		8.48	7.57		-			0.01	0.01		0.02	0.02		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.026	P-value		0.345	Power	0.000		Power-50%		0.000	P-value		0.396	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		0.226	P-value		0.569	Power	0.000		Power-50%		0.000	P-value		0.294	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	38.42	30.46	6	0.42	0.42	1.1	-	0.147	6	6.16	6.05	6	0.02	0.02	1.4	+	0.365	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	102.11	92.74	6	34.25	28.25	1.0	+	0.500	6	1.78	1.69	6	0.84	0.83	1.0	+	0.625	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	5	57.80	25.36	6	82.55	82.16	0.9	-	0.798	5	0.04	0.04	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.10	0.10	6	6.85	3.59	0.7	-	0.117	6	0.08	0.08	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	70.98	33.83	6	851.92	502.59	0.8	-	0.830	6	0.77	0.77	6	4.14	3.64	1.1	-	0.253	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			53.88	36.50		195.20	123.40		-			1.77	1.73		1.00	0.90		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.008		Power-50%		0.114	P-value		0.441	Power	0.024		Power-50%		0.114	P-value		0.237	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.003		Power-50%		0.245	P-value		0.223	Power	0.108		Power-50%		0.384	P-value		0.145	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	33.18	17.61	6	389.93	309.72	1.1	-	0.535	5	6.48	5.07	6	79.06	37.87	0.7	-	0.335	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	6	823.38	425.29	5	79.35	50.74	0.7	+	0.558	6	69.10	27.68	5	2.56	2.23	0.6	-	0.092	6	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	5	347.60	178.37	6	139.18	58.12	0.5	+	0.260	5	1.46	0.61	6	18.88	7.68	0.6	-	0.556	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	66.26	26.32	6	54.73	32.21	0.5	+	0.787	6	6.28	4.62	6	10.23	5.37	0.6	-	0.590	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	235.88	101.04	6	913.68	315.67	0.4	-	0.068	6	4.68	2.67	6	60.74	32.90	0.7	-	0.058	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			301.26	149.73		315.37	153.29		+			17.60	8.13		34.30	17.21		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.013		Powar-50%		0.106	P-value		0.514xy	Power	0.211		Power-50%		0.186	P-value		0.107x	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.011		Power-50%		0.186	P-value		0.376	Power	0.272		Power-50%		0.288	P-value		0.425	Power	---		Power-50%		---	P-value		0.500

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

			Gigartinaceae Group (P) (a)							Total Membranoptera (A)								Membranoptera weeksiae (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.07	0.07	6	0.00	0.00	1.4	+	0.350	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.08	0.08	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.02	0.02		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.324	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.227	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	5.81	5.70	6	0.02	0.02	1.4	+	0.366	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	1.78	1.69	6	0.84	0.83	1.0	+	0.625	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	5	0.04	0.04	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.08	0.08	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.77	0.77	6	4.13	3.64	1.1	-	0.399	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.70	1.66		1.00	0.90		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.019		Power-50%		0.117	P-value		0.227	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.111		Power-50%		0.392	P-value		0.131	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	3.96	3.36	6	56.15	30.75	0.8	-	0.493	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	6	35.60	19.36	5	2.44	2.25	0.8	+	0.120	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	5	1.46	0.61	6	18.83	7.69	0.6	-	0.557	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	5.28	3.71	6	8.46	5.14	0.7	-	0.627	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	4.60	2.61	6	29.97	18.32	0.8	-	0.093	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			10.18	5.93		23.17	12.83		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.129		Power-50%		0.323	P-value		0.175	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.166		Power-50%		0.482	P-value		0.448	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.12. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

Site Pair	MVD	Total Palmaria (A) N	C	SE	N	O	SE	CV	D	P	Palmaria spp. (A) N	C	SE	N	O	SE	CV	D	P	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.35	0.35	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.35	0.35	6	0.00	0.00	1.4	-	0.363
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.07	0.07		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.07	0.07		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.450
4825C/1424	3	5	2.52	1.74	6	4.80	3.51	0.8	-	0.599	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.48	1.76	6	3.53	3.53	1.0	-	0.808
453C/453	3	6	22.73	22.20	5	0.12	0.12	1.5	+	0.403	6	0.28	0.28	5	0.00	0.00	1.6	+	0.363	6	5.12	5.12	5	0.00	0.00	1.6	+	0.363
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.67	0.67	6	0.08	0.08	1.3	+	0.882	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.67	0.67	6	0.08	0.08	1.3	+	0.882
1522C/1522	3	6	0.08	0.08	6	0.55	0.46	1.0	-	0.501	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.08	0.08	6	0.55	0.46	1.0	-	0.501
Habitat Means			5.20	4.94		1.11	0.83		+			0.06	0.06		0.00	0.00		+			1.67	1.53		0.83	0.81		+	
Fisher's		Power	0.011		Power-50%		0.037	P-value		0.676	Power	---		Power-50%		---	P-value		0.536	Power	0.008		Power-50%		0.008	P-value		0.624
Stouffer's		Power	0.042		Power-50%		0.129	P-value		0.365	Power	---		Power-50%		---	P-value		0.315	Power	0.046		Power-50%		0.182	P-value		0.336

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

Site Pair	MVD	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Po			Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.425
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.04	0.04	6	1.27	1.27	1.5	-	0.890	5	0.00	0.00	6	0.14	0.14	1.6	-	0.363
453C/453	3	6	17.33	17.13	5	0.00	0.00	1.5	+	0.358	6	0.00	0.00	5	0.12	0.12	1.2	-	0.365	6	3.25	3.25	5	0.00	0.00	1.6	+	0.363
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	26.14	25.80	1.4	-	0.358
Habitat Means			3.47	3.43		0.00	0.00		+			0.01	0.01		0.28	0.28		-			0.65	0.65		5.26	5.19		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.534	Power	0.000		Power-50%		---	P-value		0.515	Power	0.000		Power-50%		0.000	P-value		0.438
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.313	Power	0.002		Power-50%		---	P-value		0.309	Power	0.000		Power-50%		---	P-value		0.566

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

Table C-3.12. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Rhodymenia pertusa (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.417	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	0.00	0.00	6	3.72	2.90	1.2	-	0.257	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	14.26	13.67	1.5	-	0.345
453C/453	3	6	2.73	2.22	5	0.00	0.00	1.3	+	0.273	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	4.78	2.63	5	0.00	0.00	0.9	-	0.129
601C/601	3	5	0.00	0.00	6	0.05	0.05	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	0.33	0.31	6	1.68	1.09	0.8	-	0.262	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	6	3.95	1.94	0.7	-	0.097	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.13	0.13	1.4	-	0.363
Habitat Means			0.61	0.51		1.88	1.20		-			0.00	0.00		0.00	0.00		o			0.96	0.53		2.88	2.76		-	
Fisher's		Power	---		Power-50%		---	P-value		0.056	Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.000	P-value		0.455
Stouffer's		Power	0.318		Power-50%		0.007	P-value		0.158	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.000	P-value		0.686

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

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	19.35	19.19	6	0.00	0.00	1.4	+	0.360	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.01	0.01	0.8	-	0.267	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.05	0.05	6	0.00	0.00	1.4	+	0.721	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	42.30	37.84	1.3	-	0.315	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			3.88	3.85		8.46	7.57		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.000	P-value		0.406	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.000		Power-50%		0.010	P-value		0.617	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	30.60	23.26	6	0.20	0.20	1.1	+	0.085	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.58	2.58	6	0.00	0.00	1.4	+	0.363
453C/453	2	6	97.01	88.59	6	33.42	28.39	1.0	+	0.510	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.33	0.33	6	0.00	0.00	1.4	+	0.363
601C/601	2	5	57.52	25.22	6	82.55	82.16	0.9	-	0.795	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.02	0.02	6	6.85	3.59	0.7	-	0.085	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	68.04	32.98	6	845.71	503.45	0.8	-	0.813	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.23	0.23	1.4	-	0.652
Habitat Means			50.64	34.01		193.75	123.56		-			0.00	0.00		0.00	0.00		o			0.58	0.58		0.05	0.05		+	
Fisher's		Power	0.010		Power-50%		0.164	P-value		0.387x	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.407
Stouffer's		Power	0.003		Power-50%		0.283	P-value		0.196	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.303
4825C/1424	3	5	18.15	10.20	6	204.99	178.03	1.2	-	0.260	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.06	0.06	6	9.61	6.92	1.1	-	0.222
453C/453	3	6	737.79	414.96	5	74.85	48.52	0.8	+	0.624	6	6.33	4.01	5	0.00	0.00	1.0	+	0.176	6	15.17	9.77	5	0.12	0.12	1.0	+	0.229
601C/601	3	5	321.47	164.91	6	119.24	58.69	0.5	+	0.244	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.26	0.26	6	2.80	1.70	0.9	-	0.197
598C/598	3	6	58.70	23.61	6	44.07	27.29	0.5	+	0.694	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.04	0.03	1.3	-	0.338
1522C/1522	3	6	229.65	97.46	6	765.36	287.42	0.4	-	0.108	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.10	1.39	6	2.39	1.19	0.6	-	0.879
Habitat Means			273.15	142.23		241.70	119.99		+			1.27	0.80		0.00	0.00		+			3.52	2.30		2.99	1.99		-	
Fisher's		Power	0.034		Power-50%		0.167	P-value		0.528	Power	0.002		Power-50%		0.001	P-value		0.405	Power	0.085		Power-50%		0.085	P-value		0.152 y
Stouffer's		Power	0.051		Power-50%		0.238	P-value		0.365	Power	0.000		Power-50%		0.001	P-value		0.236	Power	0.137		Power-50%		0.429	P-value		0.272

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

Table C-3.12. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

Site Pair	MVD	Dumontia contorta (AE) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.05	0.05	6	0.00	0.00	1.4	+	0.363
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.01	0.01		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.000	P-value		0.491 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.652
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.05	0.05	1.4	-	0.329
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.87	0.87	1.4	-	0.381
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.18	0.18		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.000	P-value		0.351
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.183
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.03	0.03	1.6	-	0.363
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.01	0.01		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.359
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.180

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

Site Pair	MVD	Microcladia borealis (A) N	C	SE	N	O	SE	CV	D	P	Nemalion helminthoides (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	19.35	19.19	6	0.00	0.00	1.4	+	0.360
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.01	0.00	0.8	-	0.401
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	42.30	37.84	1.3	-	0.315
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			3.87	3.84		8.46	7.57		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.001		Power-50%		0.001	P-value		0.278
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.267
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	25.92	18.82	6	0.20	0.20	1.0	+	0.086
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	96.68	88.26	6	33.42	28.39	1.0	-	0.511
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	57.52	25.22	6	82.49	82.17	0.9	-	0.796
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	5.98	3.77	0.9	-	0.166
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	68.04	32.98	6	845.48	503.44	0.8	-	0.813
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			49.63	33.06		193.52	123.59		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.006		Power-50%		0.006	P-value		0.505x
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.006		Power-50%		0.163	P-value		0.276
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	17.69	9.99	6	150.41	126.39	1.2	-	0.427
453C/453	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	676.19	378.74	5	74.68	48.42	0.8	+	0.669
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	321.21	164.97	6	115.18	58.70	0.5	+	0.237
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	58.70	23.61	6	40.90	24.32	0.5	+	0.611
1522C/1522	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	227.40	96.20	6	699.09	285.01	0.5	-	0.148
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			260.24	134.70		216.05	108.57		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.027		Power-50%		0.027	P-value		0.488
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.031		Power-50%		0.241	P-value		0.314

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

Table C-3.12. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

Site Pair	MVD	Neorhodomela/Rhodomela spp. (P) (b)									Neorhodomela larix (P)										Neoptilota asplenioides (P)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
453C/453	1	6	19.35	19.19	6	*0.00*	*0.00*	1.4	+	0.360	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
601C/601	1	6	0.00	0.00	6	0.01	0.00	0.8	-	0.401	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
598C/598	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	1	6	0.00	0.00	6	42.30	37.84	1.3	-	0.315	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			3.87	3.84		8.46	7.57		-			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	0.001		Power-50%		0.000	P-value		0.278	Power	---		Power-50%		---	P-value		0.732		Power	---		Power-50%		---	P-value		0.732	
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.267	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	
4825C/1424	2	6	25.92	18.82	6	0.20	0.20	1.0	-	0.086	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
453C/453	2	6	84.28	75.88	6	33.42	28.39	1.0	+	0.544	6	12.40	12.40	6	0.00	0.00	1.4	+	0.363		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
601C/601	2	5	57.52	25.22	6	82.49	82.17	0.9	-	0.796	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	0.00	0.00	6	0.00	0.00	-	o	1.000	
598C/598	2	6	0.02	0.02	6	5.98	3.77	0.9	-	0.166	6	0.00	0.00	6	0.00	0.00	-	o	*1.000*		6	*0.00*	*0.00*	6	*0.00*	*0.00*	-	o	*1.000*	
1522C/1522	2	6	68.04	32.98	6	845.48	503.44	0.8	-	0.813	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			47.15	30.59		193.52	123.59		-			2.48	2.48		0.00	0.00		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power	0.005		Power-50%		0.083	P-value		0.500x	Power	---		Power-50%		---	P-value		0.536		Power	---		Power-50%		---	P-value		0.732	
Stouffer's		Power	0.004		Power-50%		0.162	P-value		0.267	Power	---		Power-50%		---	P-value		0.315		Power	---		Power-50%		---	P-value		0.500	
4825C/1424	3	5	11.21	6.43	6	95.79	72.91	1.1	-	0.491	5	6.48	3.99	6	54.62	53.98	1.4	-	0.891		5	0.00	0.00	6	0.00	0.00	-	o	1.000	
453C/453	3	6	633.99	340.89	5	74.68	48.42	0.8	+	0.672	6	42.20	42.20	5	0.00	0.00	1.6	+	0.363		6	0.00	0.00	5	0.00	0.00	-	o	1.000	
601C/601	3	5	317.69	163.24	6	115.18	58.70	0.5	+	0.240	5	3.52	3.52	6	0.00	0.00	1.3	+	0.374		5	0.00	0.00	6	0.00	0.00	-	o	1.000	
598C/598	3	6	58.70	23.61	6	40.90	24.32	0.5	+	0.611	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	3	6	*213.92*	*99.69*	6	*524.30*	*296.90*	0.6	-	*0.345*	6	*13.48*	*13.48*	6	*174.78*	*168.60*	1.3	-	0.275		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			247.10	126.77		170.17	100.25		+			13.14	12.64		45.88	44.52		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	0.032		Power-50%		0.186	P-value		0.464	Power	0.000		Power-50%		0.180	P-value		0.650		Power	---		Power-50%		---	P-value		0.732	
Stouffer's		Power	0.045		Power-50%		0.269	P-value		0.275	Power	0.000		Power-50%		0.261	P-value		0.671		Power	---		Power-50%		---	P-value		0.500	

(b) Neorhodomela larix not included.

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

Site Pair	MVD	Ptilota sp. (P)									Odonthalia floccosa (P)										Morphological Group - Fine Filamentous Reds									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.01	0.01	1.2	-	0.859	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		+		
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732		Power	---		*Power-50%*		---	*P-value*		*0.380* y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.256	
4825C/1424	2	6	2.10	2.10	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	1.28	1.28	6	0.00	0.00	1.4	+	0.363	
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.82	0.79	6	0.00	0.00	1.4	+	0.312	
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	0.24	0.20	6	0.00	0.00	1.1	-	0.303	
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	2.17	1.42	6	0.14	0.10	0.9	+	0.726	
Habitat Means			0.42	0.42		0.00	0.00		+			0.00	0.00		0.00	0.00		o				0.90	0.74		0.03	0.02		+		
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732		Power	---		Power-50%		---	P-value		0.090	
Stouffer's		Power	---		Power-50%		---	*P-value*		*0.450*	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.047	
4825C/1424	3	5	0.40	0.40	6	29.33	29.33	1.5	-	0.717	5	0.00	0.00	6	15.64	15.64	1.6	-	0.363		5	2.43	2.43	6	83.54	83.38	1.5	-	0.310	
453C/453	3	6	39.07	28.74	5	0.03	0.03	1.1	+	0.116	6	1.04	1.03	5	0.03	0.03	1.5	-	0.644		6	4.24	2.42	5	0.51	0.34	0.8	+	0.923	
601C/601	3	5	0.00	0.00	6	1.22	1.22	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000		5	0.05	0.05	6	0.73	0.69	1.4	-	0.584	
598C/598	3	6	0.00	0.00	6	3.14	3.13	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	1.28	1.15	6	0.30	0.30	1.1	+	0.430	
1522C/1522	3	6	0.15	0.15	6	61.72	38.79	0.9	-	0.104	6	0.00	0.00	6	2.17	2.17	1.4	-	0.363		6	0.03	0.03	6	0.46	0.45	1.3	-	0.324	
Habitat Means			7.92	5.86		19.09	14.50		-			0.21	0.21		3.57	3.57		-				1.61	1.21		17.11	17.03		-		
Fisher's		Power	0.027		Power-50%		0.001	P-value		0.135	Power	0.000		Power-50%		0.000	P-value		0.408		Power	0.019		Power-50%		0.019	P-value		0.316	
Stouffer's		Power	0.073		Power-50%		0.004	P-value		0.319	Power	0.004		Power-50%		0.000	P-value		0.472		Power	0.056		Power-50%		0.267	P-value		0.576	

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

Table C-3.12. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

Site Pair	MVD	Antithamnion/Antithamnionella (A) (b) N	C	SE	N	O	SE	CV	D	P	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			o
Fisher's		Power ---			Power-50%	---	P-value	0.732			Power ---			Power-50%	---	P-value	0.536			Power ---			Power-50%	---	P-value	0.732		
Stouffer's		Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.425			Power ---			Power-50%	---	P-value	0.500		
4825C/1424	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
601C/601	2	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			o
Fisher's		Power ---			Power-50%	---	P-value	0.732			Power ---			Power-50%	---	P-value	0.732			Power ---			Power-50%	---	P-value	0.732		
Stouffer's		Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500		
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000
453C/453	3	6	0.00	0.00	5	0.00	0.00		-	o 1.000	6	0.00	0.00	5	0.00	0.00		-	o 1.000	6	0.00	0.00	5	0.00	0.00		-	o 1.000
601C/601	3	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000
598C/598	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1522C/1522	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00			-		0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o
Fisher's		Power ---			Power-50%	---	P-value	0.536			Power ---			Power-50%	---	P-value	0.732			Power ---			Power-50%	---	P-value	0.732		
Stouffer's		Power ---			Power-50%	---	P-value	0.450			Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500		

(b) Genera not separated.

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

Site Pair	MVD	Ceramium sp. (A) N	C	SE	N	O	SE	CV	D	P	Gloiosiphonia capillaris (A) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
601C/601	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
598C/598	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.01	0.01	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value	0.732			Power ---			Power-50%	---	P-value	0.732			Power ---			Power-50%	---	P-value	0.441	y	
Stouffer's		Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.307		
4825C/1424	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	1.28	1.28	6	0.00	0.00	1.4	-	0.363
453C/453	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.82	0.79	6	0.00	0.00	1.4	-	0.312
601C/601	2	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.24	0.20	6	0.00	0.00	1.1	+	0.303
598C/598	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
1522C/1522	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	2.17	1.42	6	0.14	0.10	0.9	+	0.726
Habitat Means			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o		0.90	0.74		0.03	0.02		+	
Fisher's		Power ---			Power-50%	---	P-value	0.732			Power ---			Power-50%	---	P-value	0.732			Power ---			Power-50%	---	P-value	0.090		
Stouffer's		Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.047		
4825C/1424	3	5	0.00	0.00	6	0.96	0.96	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	2.43	2.43	6	81.69	81.52	1.5	-	0.312
453C/453	3	6	0.00	0.00	5	0.00	0.00		-	o 1.000	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	4.24	2.42	5	0.50	0.34	0.8	+	0.922
601C/601	3	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.05	0.05	6	0.73	0.69	1.4	-	0.584
598C/598	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	1.28	1.15	6	0.30	0.30	1.1	+	0.430
1522C/1522	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.03	0.03	6	0.46	0.45	1.3	-	0.324
Habitat Means			0.00	0.00		0.19	0.19			-		0.00	0.00		0.00	0.00			-		1.61	1.21		16.74	16.66		-	
Fisher's		Power ---			Power-50%	---	P-value	0.536			Power ---			Power-50%	---	P-value	0.542			Power 0.016			Power-50%	0.016	P-value	0.317		
Stouffer's		Power ---			Power-50%	---	P-value	0.450			Power ---			Power-50%	---	P-value	0.319			Power 0.047			Power-50%	0.288	P-value	0.576		

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

Table C-3.12. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

Site Pair	MVD	Scagelia/Hollenbergia (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.38	0.29	6	0.20	0.20	0.9	+	0.618	6	0.38	0.29	6	0.20	0.20	0.9	+	0.618
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.50	1.81	6	0.00	0.00	1.0	+	0.225	6	2.50	1.81	6	0.00	0.00	1.0	+	0.225
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.93	1.93	1.4	-	0.363	6	0.00	0.00	6	1.93	1.93	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.58	0.42		0.43	0.43		+			0.58	0.42		0.43	0.43		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.003		Power-50%		0.009	P-value		0.450	Power	0.004		Power-50%		0.004	P-value		0.450
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.028		Power-50%		0.001	P-value		0.300	Power	0.032		Power-50%		0.001	P-value		0.300
4825C/1424	3	5	0.00	0.00	6	0.89	0.89	1.6	-	0.363	5	6.12	4.15	6	10.97	9.35	0.9	-	0.670	5	6.12	4.15	6	10.97	9.35	0.9	-	0.670
453C/453	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	12.25	11.79	5	1.42	1.30	1.3	-	0.700	6	12.25	11.79	5	1.42	1.30	1.3	-	0.700
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.02	0.02	1.6	-	0.363	5	0.00	0.00	6	0.02	0.02	1.6	-	0.363
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.13	0.08	0.9	-	0.175	6	0.00	0.00	6	0.13	0.08	0.9	-	0.175
1522C/1522	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	51.87	43.34	1.2	-	0.000	6	0.00	0.00	6	51.87	43.34	1.2	-	0.000
Habitat Means			0.00	0.00		0.18	0.18		-			3.67	3.19		12.88	10.82		-			3.67	3.19		12.88	10.82		-	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.001
Stouffer's		Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.029	Power	---		Power-50%		---	P-value		0.029

(b) Genera not separated.

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

Site Pair	MVD	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Calcified Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	6	0.08	0.08	6	0.00	0.00	1.4	+	0.363	6	0.30	0.30	6	0.20	0.20	1.0	+	0.787	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.50	1.81	6	0.00	0.00	1.0	+	0.225	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	1.77	1.77	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.02	0.02		0.03	0.03		+			0.56	0.42		0.39	0.39		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.632 y	Power	0.001		Power-50%		0.003	P-value		0.494	Power	---		Power-50%		---	P-value		0.632 y
Stouffer's		Power	---		Power-50%		---	P-value		0.525	Power	0.007		Power-50%		0.000	P-value		0.312	Power	---		Power-50%		---	P-value		0.385
4825C/1424	3	5	6.12	4.15	6	0.00	0.00	0.9	+	0.214	5	0.00	0.00	6	10.97	9.35	1.3	-	0.294	5	0.00	0.00	6	11.36	11.36	1.6	-	0.363
453C/453	3	6	0.00	0.00	5	0.10	0.10	1.3	-	0.374	6	12.25	11.79	5	1.32	1.32	1.4	+	0.534	6	0.00	0.00	5	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.02	0.02	1.6	-	0.363	5	24.62	24.62	6	0.32	0.32	1.3	+	0.903
598C/598	3	6	0.00	0.00	6	0.13	0.08	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	51.87	43.34	1.2	-	0.285	6	1.52	1.52	6	35.25	15.74	0.6	-	0.074
Habitat Means			1.22	0.83		0.05	0.04		-			2.45	2.36		12.84	10.81		-			5.23	5.23		9.39	5.48		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.419 y	Power	0.033		Power-50%		0.000	P-value		0.215	Power	0.002		Power-50%		0.002	P-value		0.174
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.122	Power	0.134		Power-50%		0.000	P-value		0.402	Power	0.029		Power-50%		---	P-value		0.320

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

Table C-3.12. Algal Biomass, Rhodophyta, Prince William Sound. Sheltered Rocky. July 1990. (Continued.)

Site Pair	MVD	Articulate Coralline Algae (A)									Clathromorphum recliniatum (P)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power --- Power-50% --- P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power --- Power-50% --- P-value
4825C/1424	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
453C/453	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
601C/601	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.632 y	Power	---		Power-50%		---	P-value		0.732	Power --- Power-50% --- P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.500	Power --- Power-50% --- P-value
4825C/1424	3	5	0.00	0.00	6	11.36	11.36	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	
453C/453	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	
601C/601	3	5	24.62	24.62	6	0.32	0.32	1.3	-	0.903	5	0.00	0.00	6	0.00	0.00	-	o	1.000	
598C/598	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1522C/1522	3	6	1.52	1.52	6	35.25	15.74	0.6	-	0.074	6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			5.23	5.23		9.39	5.48		-			0.00	0.00		0.00	0.00		o		
Fisher's		Power	0.003		Power-50%		---	P-value		0.174	Power	---		Power-50%		---	P-value		0.732	Power --- Power-50% --- P-value
Stouffer's		Power	0.032		Power-50%		---	P-value		0.320	Power	---		Power-50%		---	P-value		0.500	Power --- Power-50% --- P-value

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

Table C-3.13. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)							Total Algae							Perennials (P)						
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	2.50	1.34	6	1.67	1.17	0.6	+	0.649	6	1894.56	1013.23	6	76.24	76.24	0.7	+	0.168	6	1865.33	993.71	6	72.38	72.38	0.7	+	0.095
453C/453	1	6	3.17	0.95	6	2.50	1.23	0.4	+	0.677	6	1800.20	599.03	6	458.34	211.27	0.4	+	0.061	6	1783.81	597.69	6	408.65	206.71	0.4	+	0.055
601C/601	1	6	1.00	0.37	6	2.67	1.20	0.5	-	0.214	6	274.37	271.97	6	433.34	393.20	1.0	-	0.746	6	274.27	271.93	6	430.73	390.99	1.0	-	0.749
598C/598	1	6	1.33	0.56	6	0.33	0.33	0.6	+	0.155	6	54.50	52.04	6	0.22	0.22	1.3	+	0.017	6	53.84	52.17	6	0.00	0.00	1.4	+	0.349
1522C/1522	1	6	4.00	1.10	6	5.67	1.91	0.3	-	0.466	6	1896.09	758.73	6	1201.95	580.04	0.4	+	0.484	6	1893.32	759.58	6	1012.64	464.12	0.4	+	0.346
Habitat Means			2.40	0.86		2.57	1.17		+			1183.94	539.00		434.02	252.17		+			1174.11	535.02		384.88	226.84		+	
Fisher's		Power	0.208		Power-50%		0.873	P-value		0.415 y	Power	---		Power-50%	---		P-value		0.005	Power	---		Power-50%	---		P-value		0.020
Stouffer's		Power	0.123		Power-50%		0.920	P-value		0.171	Power	---		Power-50%	---		P-value		0.001	Power	---		Power-50%	---		P-value		0.018
4825C/1424	2	5	6.80	1.07	6	7.67	1.78	0.2	-	0.702	5	2521.01	1251.12	6	832.62	454.27	0.5	+	0.205	5	2251.24	1283.58	6	710.48	420.91	0.6	+	0.249
453C/453	2	5	9.20	1.36	6	3.00	0.93	0.2	+	0.004	5	1368.21	544.41	6	4040.51	1614.08	0.5	-	0.183	5	1337.74	541.06	6	4037.35	1612.55	0.5	-	0.178
601C/601	2	6	5.67	1.26	6	5.83	1.19	0.2	-	0.925	6	912.95	500.64	6	395.09	169.24	0.6	+	0.350	6	815.45	505.53	6	178.75	42.41	0.7	+	0.456
598C/598	2	6	5.17	1.60	6	3.83	0.98	0.3	-	0.494	6	865.15	388.34	6	1243.19	688.21	0.5	-	0.643	6	783.89	364.03	6	1218.58	678.27	0.5	-	0.585
1522C/1522	2	6	7.17	0.75	6	13.00	2.11	0.2	-	0.026	6	2857.76	927.08	6	2413.86	390.85	0.3	-	0.668	6	2793.70	921.86	6	1667.53	271.57	0.3	-	0.268
Habitat Means			6.80	1.21		6.67	1.40		-			1705.02	722.32		1785.05	663.33		+			1596.40	723.21		1562.54	605.14		-	
Fisher's		Power	0.083		Power-50%		0.992	P-value		0.232xy	Power	0.088		Power-50%	0.352	P-value			0.342 y	Power	0.111		Power-50%	0.111	P-value			0.284
Stouffer's		Power	0.020		Power-50%		0.994	P-value		0.937	Power	0.175		Power-50%	0.424	P-value			0.721	Power	0.202		Power-50%	0.387	P-value			0.718
4825C/1424	3	5	15.20	2.08	6	21.17	2.24	0.1	-	0.087	5	3428.03	934.47	6	2937.74	762.96	0.3	+	0.691	5	2724.18	1101.12	6	1791.65	704.81	0.4	-	0.479
453C/453	3	5	20.00	1.97	6	11.67	3.93	0.2	+	0.110	5	2248.02	562.43	6	1472.63	628.96	0.3	+	0.391	5	1719.39	409.61	6	927.10	491.66	0.3	+	0.259
601C/601	3	5	12.00	1.84	5	7.60	2.01	0.2	+	0.146	5	1451.81	394.41	5	1909.59	672.71	0.3	-	0.573	5	1036.34	370.16	5	1582.24	727.83	0.4	-	0.523
598C/598	3	5	14.00	1.30	5	11.40	2.42	0.2	+	0.372	5	1694.96	626.89	5	1528.96	322.36	0.3	+	0.820	5	1387.16	568.87	5	1289.78	370.49	0.4	+	0.890
1522C/1522	3	6	10.50	2.03	5	16.40	4.53	0.2	-	0.238	6	1023.94	327.69	5	2867.59	881.18	0.3	-	0.064	6	798.63	239.79	5	2176.99	851.70	0.4	-	0.124
Habitat Means			14.34	1.85		13.65	3.03		+			1969.35	569.18		2143.30	653.63		+			1533.14	537.91		1553.55	629.30		-	
Fisher's		Power	0.444		Power-50%		1.000	P-value		0.142x	Power	0.092		Power-50%	0.576	P-value			0.637xy	Power	0.093		Power-50%	0.093	P-value			0.504 y
Stouffer's		Power	---		Power-50%		1.000	P-value		0.081	Power	0.059		Power-50%	0.649	P-value			0.432	Power	0.087		Power-50%	0.505	P-value			0.368

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

		Annuals (A)							Ephemerals (AE)																			
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	29.22	28.17	6	3.85	3.75	1.2	+	0.840	6	28.44	27.41	6	3.43	3.37	1.2	+	0.817									
453C/453	1	6	16.39	15.95	6	49.69	40.30	0.9	-	0.460	6	11.98	11.56	6	49.27	39.89	1.0	-	0.390									
601C/601	1	6	0.10	0.04	6	2.61	2.21	1.2	-	0.932	6	0.08	0.05	6	0.89	0.64	0.9	-	0.752									
598C/598	1	6	0.67	0.27	6	0.22	0.22	0.6	+	0.225	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	2.77	2.05	6	189.31	177.45	1.3	-	0.315	6	1.78	1.51	6	185.69	175.20	1.3	-	0.328									
Habitat Means			9.83	9.30		49.14	44.79		-			8.46	8.10		47.86	43.82		-										
Fisher's		Power	0.063		Power-50%		0.289	P-value		0.486	Power	0.040		Power-50%	0.149	P-value			0.336	Power	---		Power-50%	---	P-value			
Stouffer's		Power	0.049		Power-50%		0.395	P-value		0.637	Power	0.067		Power-50%	0.271	P-value			0.242	Power	---		Power-50%	---	P-value			
4825C/1424	2	5	269.77	74.45	6	122.15	54.75	0.3	+	0.137	5	263.73	71.09	6	120.43	53.88	0.3	+	0.136									
453C/453	2	5	30.47	9.83	6	3.16	1.77	0.4	+	0.035	5	23.54	10.87	6	2.94	1.83	0.5	+	0.086									
601C/601	2	6	97.50	41.08	6	216.34	149.92	0.7	-	0.462	6	69.34	43.24	6	205.25	146.40	0.8	-	0.394									
598C/598	2	6	81.26	59.62	6	24.60	12.42	0.8	+	0.902	6	13.27	7.88	6	15.62	8.98	0.6	-	0.848									
1522C/1522	2	6	64.06	15.87	6	746.33	368.50	0.6	-	0.087	6	48.59	11.85	6	680.01	359.23	0.7	-	0.079									
Habitat Means			108.61	40.17		222.51	117.47		+			83.69	28.99		204.85	114.07		-										
Fisher's		Power	0.261		Power-50%		0.398	P-value		0.110xy	Power	0.015		Power-50%	0.249	P-value			0.309x	Power	---		Power-50%	---	P-value			
Stouffer's		Power	0.324		Power-50%		0.463	P-value		0.186	Power	0.004		Power-50%	0.304	P-value			0.659	Power	---		Power-50%	---	P-value			
4825C/1424	3	5	703.85	208.91	6	1146.09	343.88	0.3	-	0.325	5	657.58	198.45	6	611.35	116.65	0.2	+	0.839									
453C/453	3	5	528.63	169.69	6	545.53	298.31	0.5	-	0.964	5	331.42	117.71	6	197.53	126.20	0.5	+	0.465									
601C/601	3	5	415.47	164.10	5	327.35	207.19	0.5	+	0.747	5	363.52	155.31	5	235.11	167.79	0.5	+	0.590									
598C/598	3	5	307.80	74.06	5	239.18	103.64	0.3	+	0.605	5	251.28	86.46	5	169.69	55.31	0.3	+	0.450									
1522C/1522	3	6	225.31	95.48	5	690.60	233.07	0.4	-	0.080	6	171.19	72.33	5	468.39	184.98	0.4	-	0.143									
Habitat Means			436.21	142.45		589.75	237.22		-			355.00	126.05		336.41	130.19		+										
Fisher's		Power	0.034		Power-50%		0.427	P-value		0.213	Power	0.117		Power-50%	0.385	P-value			0.420	Power	---		Power-50%	---	P-value			
Stouffer's		Power	0.028		Power-50%		0.524	P-value		0.480	Power	0.084		Power-50%	0.471	P-value			0.205	Power	---		Power-50%	---	P-value			

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

Table C-3.14. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	2.02	1.42	6	0.10	0.10	1.0	+	0.440	6	1.25	0.79	6	0.10	0.10	0.8	+	0.455	6	0.60	0.60	6	0.00	0.00	1.4	+	0.363
453C/453	1	6	11.91	11.57	6	49.02	39.88	1.0	-	0.393	6	11.91	11.57	6	49.02	39.88	1.0	-	0.393	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.08	0.05	6	0.89	0.64	0.9	-	0.752	6	0.08	0.05	6	0.88	0.64	0.9	-	0.752	6	0.02	0.02	6	0.02	0.02	1.0	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	1.45	1.41	6	147.86	138.15	1.3	-	0.374	6	1.17	1.13	6	146.42	136.71	1.3	-	0.367	6	0.23	0.21	6	0.00	0.00	1.3	+	0.325
Habitat Means			3.09	2.89		39.57	35.75		-			2.88	2.71		39.28	35.46		-			0.17	0.17		0.00	0.00		+	
Fisher's		Power	0.022			Power-50%	0.120	P-value		0.402	Power	0.028			Power-50%	0.143	P-value		0.397	Power	0.002			Power-50%	0.002	P-value		0.342
Stouffer's		Power	0.043			Power-50%	0.319	P-value		0.273	Power	0.048			Power-50%	0.363	P-value		0.271	Power	0.028			Power-50%	0.012	P-value		0.371
4825C/1424	2	5	29.47	16.35	6	3.42	2.19	0.6	+	0.333	5	14.08	11.70	6	3.17	2.22	0.9	+	0.735	5	0.58	0.57	6	0.55	0.28	0.8	+	0.964
453C/453	2	5	3.31	2.66	6	2.75	1.72	0.7	-	0.859	5	1.76	1.16	6	2.75	1.72	0.7	-	0.660	5	0.06	0.06	6	0.20	0.20	1.2	-	0.554
601C/601	2	6	63.87	42.76	6	85.47	81.29	0.9	-	0.819	6	63.43	42.87	6	61.82	59.04	0.8	+	0.983	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
598C/598	2	6	7.00	5.27	6	1.59	0.79	0.9	-	0.924	6	6.53	4.82	6	0.80	0.51	0.9	+	0.809	6	0.02	0.02	6	0.08	0.08	1.2	-	0.886
1522C/1522	2	6	16.31	8.36	6	47.75	16.65	0.4	-	0.122	6	10.12	4.96	6	30.00	17.31	0.6	-	0.295	6	0.18	0.18	6	0.00	0.00	1.4	+	0.661
Habitat Means			23.99	15.08		28.20	20.53		+			19.19	13.10		19.71	16.16		+			0.17	0.17		0.17	0.11		-	
Fisher's		Power	0.034			Power-50%	0.127	P-value		0.629 y	Power	0.079			Power-50%	0.189	P-value		0.785 y	Power	0.020			Power-50%	0.020	P-value		0.465 y
Stouffer's		Power	0.065			Power-50%	0.190	P-value		0.528	Power	0.098			Power-50%	0.290	P-value		0.584	Power	0.092			Power-50%	0.088	P-value		0.295
4825C/1424	3	5	356.40	177.65	6	602.83	176.07	0.4	-	0.354	5	140.77	76.29	6	205.23	87.39	0.5	-	0.600	5	0.31	0.28	6	1.24	1.04	1.1	-	0.447
453C/453	3	5	277.75	126.19	6	170.46	128.48	0.6	+	0.570	5	186.14	75.74	6	152.45	115.69	0.6	-	0.822	5	0.00	0.00	6	0.00	0.00	1.0	-	0.900
601C/601	3	5	165.00	62.93	5	207.91	171.15	0.7	-	0.820	5	116.71	70.56	5	206.54	169.85	0.8	-	0.638	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374
598C/598	3	5	136.76	101.12	5	113.56	55.56	0.7	+	0.846	5	42.90	16.35	5	85.14	36.12	0.4	-	0.318	5	0.44	0.35	5	4.04	3.87	1.2	-	0.824
1522C/1522	3	6	79.80	36.73	5	198.95	110.09	0.5	-	0.296	6	62.68	31.16	5	174.83	110.85	0.6	-	0.317	6	0.35	0.35	5	22.64	22.26	1.2	-	0.371
Habitat Means			203.14	100.92		258.74	128.27		-			109.84	54.02		164.84	103.98		-			0.22	0.20		5.58	5.43		-	
Fisher's		Power	0.011			Power-50%	0.397	P-value		0.370	Power	0.031			Power-50%	0.302	P-value		0.217	Power	0.012			Power-50%	0.012	P-value		0.463
Stouffer's		Power	0.019			Power-50%	0.475	P-value		0.521	Power	0.050			Power-50%	0.383	P-value		0.148	Power	0.048			Power-50%	0.221	P-value		0.424

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.65	0.65	6	0.10	0.10	1.2	-	0.894	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	11.91	11.57	6	49.02	39.88	1.0	-	0.393	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.07	0.05	6	0.87	0.64	1.0	-	0.460	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.93	0.91	6	146.42	136.71	1.3	-	0.224	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.71	2.64		39.28	35.46		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.038			Power-50%	0.064	P-value		0.216	Power	---			Power-50%	---	P-value		0.732	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.110			Power-50%	0.321	P-value		0.195	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	5	13.51	11.85	6	2.37	2.23	1.0	+	0.478	5	0.00	0.00	6	0.25	0.25	1.6	-	0.363	5	0.00	0.00	6	0.25	0.25	1.6	-	0.363
453C/453	2	5	1.70	1.18	6	2.55	1.58	0.7	-	0.689	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	63.43	42.87	6	61.82	59.04	0.8	+	0.983	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	6.47	4.78	6	0.72	0.52	0.9	+	0.762	6	0.05	0.05	6	0.00	0.00	1.4	+	0.363	6	0.05	0.05	6	0.00	0.00	1.4	+	0.363
1522C/1522	2	6	9.94	4.99	6	30.00	17.31	0.6	-	0.292	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			19.01	13.13		19.49	16.14		+			0.01	0.01		0.05	0.05		-			0.01	0.01		0.05	0.05		-	
Fisher's		Power	0.116			Power-50%	0.203	P-value		0.690 y	Power	---			Power-50%	---	P-value		0.632	Power	---			Power-50%	---	P-value		0.632
Stouffer's		Power	0.176			Power-50%	0.294	P-value		0.537	Power	---			Power-50%	---	P-value		0.719	Power	---			Power-50%	---	P-value		0.719
4825C/1424	3	5	132.27	77.36	6	187.48	88.63	0.5	-	0.657	5	8.20	5.08	6	16.51	6.93	0.5	-	0.377	5	8.20	5.08	6	10.39	6.00	0.6	-	0.792
453C/453	3	5	168.74	72.31	6	90.37	59.56	0.5	+	0.420	5	17.40	9.68	6	62.09	57.49	1.1	-	0.633	5	6.72	6.69	6	62.09	57.49	1.3	-	0.721
601C/601	3	5	115.83	70.89	5	206.18	169.91	0.8	-	0.637	5	0.88	0.88	5	0.36	0.36	1.1	+	0.598	5	0.00	0.00	5	0.36	0.36	1.4	-	0.645
598C/598	3	5	36.71	12.60	5	31.28	16.17	0.4	+	0.798	5	5.74	4.23	5	49.82	34.13	0.9	-	0.995	5	5.74	4.23	5	38.14	33.87	1.1	-	0.941
1522C/1522	3	6	62.33	30.84	5	56.98	50.04	0.7	+	0.927	6	0.00	0.00	5	95.22	91.83	1.2	-	0.358	6	0.00	0.00	5	92.64	92.44	1.3	-	0.373
Habitat Means			103.18	52.80		114.46	76.86		+			6.44	3.98		44.80	38.15		-			4.13	3.20		40.72	38.03		-	
Fisher's		Power	0.052			Power-50%	0.157	P-value		0.623 y	Power	0.046			Power-50%	0.052	P-value		0.343	Power	0.086			Power-50%	0.086	P-value		0.356
Stouffer's		Power	0.048			Power-50%	0.255	P-value		0.317	Power	0.117			Power-50%	0.202	P-value		0.327	Power	0.201			Power-50%	0.158	P-value		0.283

(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-3.14. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.77	0.77	6	0.00	0.00	1.4	+	0.362	6	0.77	0.77	6	0.00	0.00	1.4	-	0.363
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	1.44	1.44	1.3	-	0.885	6	0.00	0.00	6	0.48	0.48	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.19	0.19		0.29	0.29		-			0.15	0.15		0.10	0.10		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.000	P-value		0.420	Power	---		Power-50%		---	P-value		0.632
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.276	Power	---		Power-50%		---	P-value		0.525
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	15.36	14.73	6	0.17	0.17	1.2	-	0.612	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.55	1.55	6	0.00	0.00	1.3	-	0.373	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.40	0.40	6	1.17	1.09	1.0	-	0.523	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.47	0.47	6	0.79	0.78	1.0	-	0.735	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	6.19	3.53	6	17.74	12.73	0.8	-	0.402	6	0.00	0.00	6	8.28	8.28	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			4.79	4.14		3.97	2.95		-			0.00	0.00		1.64	1.64		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.002		Power-50%		0.148	P-value		0.529 y	Power	0.000		Power-50%		0.000	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.004		Power-50%		0.330	P-value		0.483	Power	0.000		Power-50%		---	P-value		0.425
4825C/1424	3	5	0.00	0.00	6	6.12	6.12	1.6	-	0.363	5	203.32	116.60	6	397.59	128.81	0.4	-	0.301	5	0.00	0.00	6	58.28	40.19	1.1	-	0.207
453C/453	3	5	10.68	9.21	6	0.00	0.00	1.1	+	0.311	5	32.59	30.42	6	17.54	12.93	0.9	+	0.639	5	30.51	30.50	6	3.50	3.50	1.2	-	0.620
601C/601	3	5	0.88	0.88	5	0.00	0.00	1.4	+	0.374	5	47.53	30.41	5	1.35	1.31	0.9	+	0.015	5	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	5	11.68	11.68	1.4	-	0.374	5	91.63	86.47	5	23.67	22.02	1.1	+	0.468	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	5	2.58	2.58	1.3	-	0.374	6	17.11	10.60	5	21.40	17.57	0.7	-	0.833	6	0.95	0.61	5	0.04	0.04	1.0	-	0.341
Habitat Means			2.31	2.02		4.08	4.08		-			78.44	54.90		92.31	36.53		+			6.29	6.22		12.34	8.75		·	
Fisher's		Power	0.000		Power-50%		0.001	P-value		0.368	Power	---		Power-50%		---	P-value		0.089 y	Power	0.000		Power-50%		0.000	P-value		0.544 y
Stouffer's		Power	0.002		Power-50%		0.001	P-value		0.398	Power	0.194		Power-50%		0.432	P-value		0.117	Power	0.000		Power-50%		0.001	P-value		0.388

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha melagonium (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.86	0.86	1.4	-	0.363	6	0.00	0.00	6	0.86	0.86	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17		-			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.15	0.15	6	0.00	0.00	1.3	+	0.374	5	0.15	0.15	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	0.96	0.96	6	0.00	0.00	1.3	+	0.374	5	0.96	0.96	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.10	0.07	6	3.28	3.22	1.3	-	0.593	6	0.10	0.07	6	3.28	3.22	1.3	-	0.593	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.24	0.24		0.66	0.64		+			0.24	0.24		0.66	0.64		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.006	P-value		0.425 y	Power	0.000		Power-50%		0.009	P-value		0.425 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.005		Power-50%		0.025	P-value		0.314	Power	0.006		Power-50%		0.037	P-value		0.314	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	3.39	1.68	6	1.67	1.23	0.6	+	0.420	5	2.79	1.41	6	1.64	1.20	0.6	+	0.545	5	0.60	0.60	6	0.03	0.03	1.2	-	0.741
453C/453	3	5	0.05	0.04	6	0.00	0.00	1.0	+	0.032	5	0.05	0.04	6	0.00	0.00	1.0	+	0.032	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	3	5	1.14	1.14	5	0.02	0.02	1.4	+	0.744	5	1.14	1.14	5	0.02	0.02	1.4	+	0.744	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374
598C/598	3	5	0.01	0.01	5	0.23	0.14	0.8	-	0.205	5	0.01	0.01	5	0.23	0.14	0.8	-	0.194	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374
1522C/1522	3	6	0.04	0.04	5	0.57	0.38	0.8	-	0.356	6	0.04	0.04	5	0.48	0.31	0.8	-	0.361	6	0.00	0.00	5	0.08	0.08	1.2	-	0.361
Habitat Means			0.93	0.58		0.50	0.35		·			0.81	0.53		0.47	0.33		-			0.12	0.12		0.02	0.02		+	
Fisher's		Power	0.036		Power-50%		0.075	P-value		0.174	Power	0.036		Power-50%		0.094	P-value		0.200	Power	0.000		Power-50%		0.000	P-value		0.400
Stouffer's		Power	0.070		Power-50%		0.198	P-value		0.441	Power	0.066		Power-50%		0.207	P-value		0.461	Power	0.004		Power-50%		---	P-value		0.226

(b) Chaetomorpha melagonium not included.

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

Table C-3.14. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Gomontia polyrhiza (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.17	0.17	6	0.10	0.10	1.0	+	0.751	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.03	0.03		0.02	0.02		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%		---	P-value		0.672	Power ---			Power-50%		---	P-value		0.732	Power ---			Power-50%		---	P-value		0.732
Stouffer's		Power ---			Power-50%		---	P-value		0.692	Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500
4825C/1424	2	5	15.21	14.58	6	0.17	0.17	1.2	+	0.612	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	0.59	0.59	6	0.00	0.00	1.3	+	0.372	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.40	0.40	6	1.17	1.09	1.0	-	0.523	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.47	0.47	6	0.79	0.78	1.0	-	0.735	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	6.09	3.53	6	6.28	4.57	0.7	-	0.975	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			4.55	3.91		1.68	1.32		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power 0.002			Power-50%		0.158	P-value		0.700 y	Power ---			Power-50%		---	P-value		0.732	Power ---			Power-50%		---	P-value		0.732
Stouffer's		Power 0.003			Power-50%		0.373	P-value		0.551	Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500
4825C/1424	3	5	199.93	117.80	6	337.74	119.13	0.4	-	0.437	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	2.03	1.09	6	14.04	13.21	1.3	-	0.396	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	3	5	46.39	30.77	5	1.34	1.32	0.9	+	0.014	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	91.62	86.46	5	23.44	22.07	1.1	+	0.467	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	6	16.12	10.57	5	20.79	17.42	0.7	-	0.817	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			71.22	49.34		79.47	34.63		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power 0.000			Power-50%		0.291	P-value		0.569x	Power ---			Power-50%		---	P-value		0.732	Power ---			Power-50%		---	P-value		0.732
Stouffer's		Power 0.001			Power-50%		0.387	P-value		0.701	Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value		0.500

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

Site Pair	MVD	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.12	0.12	6	0.00	0.00	1.4	+	0.363	6	0.12	0.12	6	0.00	0.00	1.4	+	0.363	6	0.12	0.12	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.02	0.02		0.00	0.00		+			0.02	0.02		0.00	0.00		+			0.02	0.02		0.00	0.00		+	
Fisher's		Power ---			Power-50%		---	P-value		0.536	Power ---			Power-50%		---	P-value		0.536	Power ---			Power-50%		---	P-value		0.536
Stouffer's		Power ---			Power-50%		---	P-value		0.425	Power ---			Power-50%		---	P-value		0.425	Power ---			Power-50%		---	P-value		0.425
4825C/1424	2	5	0.02	0.02	6	0.08	0.08	1.3	-	0.517	5	0.02	0.02	6	0.08	0.08	1.3	-	0.517	5	0.00	0.00	6	0.08	0.08	1.6	-	0.363
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.04	0.03	6	22.48	22.48	1.4	-	0.909	6	0.04	0.03	6	22.48	22.48	1.4	-	0.909	6	0.04	0.03	6	22.48	22.48	1.4	-	0.909
598C/598	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		4.51	4.51		-			0.01	0.01		4.51	4.51		-			0.01	0.01		4.51	4.51		-	
Fisher's		Power 0.000			Power-50%		0.000	P-value		0.487	Power 0.000			Power-50%		0.001	P-value		0.487	Power 0.000			Power-50%		0.000	P-value		0.613
Stouffer's		Power 0.004			Power-50%		0.007	P-value		0.656	Power 0.004			Power-50%		0.005	P-value		0.656	Power 0.001			Power-50%		0.000	P-value		0.710
4825C/1424	3	5	12.31	12.28	6	0.01	0.00	1.3	+	0.274	5	12.31	12.28	6	0.01	0.00	1.3	+	0.274	5	11.79	11.75	6	0.00	0.00	1.3	+	0.099
453C/453	3	5	59.02	59.02	6	0.47	0.47	1.3	-	0.882	5	59.02	59.02	6	0.47	0.47	1.3	+	0.882	5	59.02	59.02	6	0.47	0.47	1.3	-	0.882
601C/601	3	5	0.76	0.75	5	0.02	0.01	1.4	+	0.763	5	0.76	0.75	5	0.02	0.01	1.4	+	0.763	5	0.75	0.75	5	0.00	0.00	1.4	-	0.373
598C/598	3	5	2.23	1.25	5	4.74	4.74	1.0	-	0.623	5	2.23	1.25	5	4.74	4.74	1.0	-	0.623	5	0.90	0.80	5	4.74	4.74	1.2	-	0.491
1522C/1522	3	6	0.01	0.00	5	2.72	2.72	1.3	-	0.776	6	0.01	0.00	5	2.72	2.72	1.3	-	0.776	6	0.00	0.00	5	2.72	2.72	1.3	-	0.738
Habitat Means			14.86	14.66		1.59	1.59		+			14.86	14.66		1.59	1.59		+			14.49	14.47		1.59	1.59		+	
Fisher's		Power 0.103			Power-50%		0.271	P-value		0.507	Power 0.111			Power-50%		0.256	P-value		0.507	Power 0.104			Power-50%		0.104	P-value		0.253
Stouffer's		Power 0.200			Power-50%		0.533	P-value		0.556	Power 0.210			Power-50%		0.487	P-value		0.556	Power 0.223			Power-50%		0.365	P-value		0.536

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

Table C-3.14. Algal Biomass. Chlorophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

		Enteromorpha clathrata (AE)									Enteromorpha intestinalis (AE)															
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			
4825C/1424	2	5	0.02	0.02	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%	---	P-value			0.630 y	Power	---		Power-50%	---	P-value			0.732	Power	---		Power-50%	---	P-value			
Stouffer's		Power	---		Power-50%	---	P-value			0.474	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			
4825C/1424	3	5	0.06	0.06	6	0.00	0.00	1.2	+	0.329	5	0.46	0.46	6	0.00	0.00	1.3	+	0.551									
453C/453	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	3	5	0.00	0.00	5	0.02	0.01	1.1	-	0.455	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
598C/598	3	5	0.07	0.06	5	0.00	0.00	1.2	+	0.307	5	1.26	1.09	5	0.00	0.00	1.2	+	0.313									
1522C/1522	3	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.03	0.02		0.00	0.00		+			0.34	0.31		0.00	0.00		+									
Fisher's		Power	0.053		Power-50%	0.039	P-value			0.243	Power	0.001		Power-50%	0.003	P-value			0.403	Power	---		Power-50%	---	P-value			
Stouffer's		Power	0.166		Power-50%	0.150	P-value			0.172	Power	0.027		Power-50%	0.002	P-value			0.193	Power	---		Power-50%	---	P-value			

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

Table C-3.15. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus gardneri (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	1892.10	1012.00	6	75.60	75.58	0.7	+	0.148	6	1864.90	993.42	6	72.30	72.30	0.7	-	0.095	6	1864.90	993.42	6	72.30	72.30	0.7	+	0.095
453C/453	1	6	1784.20	597.72	6	380.15	212.14	0.4	+	0.051	6	1779.73	597.48	6	379.48	212.08	0.4	-	0.052	6	1779.73	597.48	6	379.48	212.08	0.4	+	0.052
601C/601	1	6	274.27	271.93	6	430.51	391.04	1.0	-	0.750	6	274.27	271.93	6	430.43	391.05	1.0	-	0.750	6	274.27	271.93	6	430.43	391.05	1.0	-	0.750
598C/598	1	6	53.84	52.17	6	0.00	0.00	1.4	+	0.243	6	53.83	52.17	6	0.00	0.00	1.4	+	0.349	6	53.83	52.17	6	0.00	0.00	1.4	-	0.349
1522C/1522	1	6	1894.59	759.10	6	950.84	434.47	0.4	+	0.306	6	1893.28	759.58	6	910.02	418.83	0.4	+	0.283	6	1893.28	759.58	6	910.02	418.83	0.4	-	0.283
Habitat Means			1179.80	538.58		367.42	222.65		+			1173.20	534.91		358.45	218.85		+			1173.20	534.91		358.45	218.85		+	
Fisher's		Power	---		Power-50%	---		P-value	0.018		Power	---		Power-50%	---		P-value	0.017		Power	---		Power-50%	---		P-value	0.017	
Stouffer's		Power	---		Power-50%	0.372		P-value	0.011		Power	---		Power-50%	---		P-value	0.016		Power	---		Power-50%	---		P-value	0.016	
4825C/1424	2	5	2484.66	1240.01	6	820.98	447.00	0.5	+	0.207	5	2249.40	1282.04	6	702.88	413.81	0.6	+	0.245	5	2249.40	1282.04	6	702.88	413.81	0.6	+	0.245
453C/453	2	5	1213.95	455.32	6	4034.36	1610.70	0.5	-	0.157	5	1189.94	453.34	6	4034.13	1610.63	0.5	-	0.154	5	1189.94	453.34	6	4034.13	1610.63	0.5	-	0.154
601C/601	2	6	821.54	498.23	6	275.70	113.08	0.7	+	0.518	6	789.47	505.04	6	146.92	38.87	0.8	+	0.380	6	788.43	505.34	6	146.92	38.87	0.8	+	0.390
598C/598	2	6	842.80	379.53	6	1239.13	687.88	0.5	-	0.625	6	769.02	359.36	6	1216.45	678.00	0.5	-	0.573	6	768.60	359.20	6	1216.45	678.00	0.5	-	0.572
1522C/1522	2	6	2742.61	927.79	6	1993.35	434.88	0.3	+	0.481	6	2694.88	918.64	6	1342.62	314.43	0.3	+	0.194	6	2694.88	918.64	6	1342.62	314.43	0.3	+	0.194
Habitat Means			1621.11	700.18		1672.70	658.71		+			1538.54	703.69		1488.60	611.15		+			1538.25	703.71		1488.60	611.15		+	
Fisher's		Power	0.081		Power-50%	0.270		P-value	0.357	y	Power	0.100		Power-50%	0.261		P-value	0.223		Power	0.101		Power-50%	0.101		P-value	0.225	
Stouffer's		Power	0.162		Power-50%	0.338		P-value	0.745		Power	0.187		Power-50%	0.324		P-value	0.712		Power	0.177		Power-50%	0.300		P-value	0.714	
4825C/1424	3	5	2867.68	1045.88	6	1552.44	672.03	0.4	+	0.302	5	2555.56	1142.45	6	1467.48	647.25	0.4	+	0.409	5	2555.56	1142.45	6	1467.48	647.25	0.4	+	0.409
453C/453	3	5	831.08	450.08	6	547.82	300.17	0.5	+	0.602	5	745.12	432.57	6	516.65	273.33	0.6	+	0.655	5	745.12	432.57	6	516.65	273.33	0.6	+	0.655
601C/601	3	5	1070.98	329.49	5	1378.06	775.71	0.5	-	0.725	5	830.38	307.61	5	1343.24	771.93	0.5	-	0.554	5	830.26	307.64	5	1343.22	771.92	0.5	-	0.554
598C/598	3	5	1466.13	505.09	5	1285.80	351.31	0.3	+	0.777	5	1313.84	540.77	5	1218.08	363.17	0.4	+	0.887	5	1310.48	540.87	5	1218.08	363.17	0.4	+	0.891
1522C/1522	3	6	799.54	261.08	5	1955.51	776.11	0.4	-	0.161	6	693.77	218.27	5	1682.50	742.39	0.4	-	0.199	6	693.77	218.27	5	1682.50	742.39	0.4	-	0.199
Habitat Means			1407.08	518.32		1343.93	575.07		+			1227.73	528.33		1245.59	559.61		+			1227.04	528.36		1245.59	559.61		+	
Fisher's		Power	0.076		Power-50%	0.320		P-value	0.519		Power	0.033		Power-50%	0.255		P-value	0.639	y	Power	0.033		Power-50%	0.033		P-value	0.640	y
Stouffer's		Power	0.105		Power-50%	0.406		P-value	0.395		Power	0.057		Power-50%	0.333		P-value	0.477		Power	0.061		Power-50%	0.313		P-value	0.478	

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

		Petalonia fascia (AE)								Total Punctaria (AE)								Punctaria spp. (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value	0.732		Power	---		Power-50%	---		P-value	0.732		Power	---		Power-50%	---		P-value	0.732	
Stouffer's		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500	
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	1.03	1.03	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.42	0.33	6	0.00	0.00	1.1	+	0.256	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.29	0.27		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.307		Power	---		Power-50%	---		P-value	0.732		Power	---		Power-50%	---		P-value	0.732	
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.138		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500	
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	3	5	0.06	0.06	5	0.02	0.02	1.1	+	0.545	5	0.06	0.06	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	3.14	1.73	5	0.00	0.00	0.8	+	0.143	5	0.22	0.22	5	0.00	0.00	1.4	+	0.374	5	0.22	0.22	5	0.00	0.00	1.4	+	0.374
1522C/1522	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.64	0.36		0.00	0.00		+			0.06	0.06		0.00	0.00		+			0.04	0.04		0.00	0.00		+	
Fisher's		Power	0.003		Power-50%	0.004		P-value	0.173		Power	---		Power-50%	---		P-value	0.368		Power	---		Power-50%	---		P-value	0.542	
Stouffer's		Power	---		Power-50%	0.008		P-value	0.081		Power	---		Power-50%	---		P-value	0.185		Power	---		Power-50%	---		P-value	0.245	

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

Table C-3.15. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Punctaria lobata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Cystoseira geminata (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	0.02	0.02	0.9	+		0.945	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.39	4.39	6	0.42	0.42	1.3	+		0.886	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.07	0.07	1.3	-		0.338	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.97	0.58	6	1.65	0.77	0.5	-		0.497	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.08	1.00		0.43	0.25		-				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	0.032		Power-50%		0.033	P-value			0.425 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.057		Power-50%		0.162	P-value			0.391	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.84	0.51	6	1.09	0.98	0.9	-		0.840	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.82	2.72	6	0.04	0.04	1.2	+		0.180	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	27.64	18.68	6	9.00	6.31	0.8	+		0.367	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	67.94	52.35	6	8.65	8.55	1.0	+		0.216	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	15.25	6.65	6	7.00	2.65	0.5	+		0.276	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			22.90	16.18		5.15	3.71		+				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value			0.060	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			0.019	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	7.54	4.57	6	16.59	15.20	1.0	-		0.614	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.02	0.54	6	0.64	0.63	0.7	+		0.665	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	3	5	0.06	0.06	5	0.00	0.00	1.4	+	0.374	5	41.06	31.02	5	7.62	6.55	0.9	-		0.322	5	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	41.20	23.76	5	11.36	5.84	0.7	+		0.257	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	13.38	4.97	5	3.02	2.70	0.5	+		0.119	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		.			20.84	12.97		7.85	6.18		+				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.542	Power	---		Power-50%		---	P-value			0.090	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value			0.056	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value			0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value			0.732	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.417	Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value		0.417
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.10	0.10	5	0.00	0.00	1.4	-	0.374
598C/598	3	5	0.10	0.10	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.02	0.02		0.00	0.00		,			0.00	0.00		0.00	0.00		o			0.02	0.02		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.542	Power	---		Power-50%		---	P-value			0.732	Power	---		Power-50%		---	P-value		0.542
[illegible]		Power	---		Power-50%		---	P-value		0.245	Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value		0.245

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

Table C-3.15. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Eudesme virescens (AE) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	0.02	0.02	0.9	+	0.945	6	27.18	26.86	6	3.28	3.28	1.3	-	0.565
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.39	4.39	6	0.42	0.42	1.3	+	0.886	6	0.07	0.07	6	0.25	0.25	1.1	-	0.494
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.07	0.07	1.3	-	0.338	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.97	0.58	6	1.65	0.77	0.5	-	0.497	6	0.34	0.18	6	39.17	38.43	1.4	-	0.390
Habitat Means			0.00	0.00		0.00	0.00		o			1.08	1.00		0.43	0.25		-			5.52	5.42		8.54	8.39		-	
Fisher's		Power	---		Power-50%	---	P-value	0.732			Power	0.035		Power-50%	0.037	P-value	0.425	y		Power	0.013		Power-50%	0.013	P-value	0.318		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	0.058		Power-50%	0.163	P-value	0.391			Power	0.047		Power-50%	0.066	P-value	0.251		
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.84	0.51	6	1.09	0.98	0.9	-	0.840	5	234.42	84.90	6	117.01	52.69	0.4	+	0.254
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.82	2.72	6	0.04	0.04	1.2	↓	0.180	5	21.18	11.24	6	0.19	0.18	0.7	+	0.074
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	27.64	18.68	6	9.00	6.31	0.8	+	0.367	6	4.44	4.20	6	119.78	75.87	0.9	-	0.205
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	67.94	52.35	6	8.65	8.55	1.0	+	0.216	6	5.85	3.70	6	14.03	9.04	0.7	-	0.422
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	15.25	6.65	6	7.00	2.65	0.5	+	0.276	6	32.38	11.17	6	643.73	352.98	0.7	-	0.108
Habitat Means			0.00	0.00		0.00	0.00		o			22.90	16.18		5.15	3.71		+			59.65	23.04		178.95	98.15		-	
Fisher's		Power	---		Power-50%	---	P-value	0.732			Power	---		Power-50%	---	P-value	0.060			Power	0.019		Power-50%	0.019	P-value	0.180	x	
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.019			Power	0.009		Power-50%	0.231	P-value	0.443		
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	7.54	4.57	6	16.59	15.20	1.0	-	0.614	5	304.57	171.78	6	68.37	35.03	0.6	+	0.598
453C/453	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.02	0.54	6	0.64	0.63	0.7	-	0.665	5	83.98	33.83	6	30.53	29.49	0.5	+	0.262
601C/601	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	41.06	31.02	5	7.62	6.55	0.9	↓	0.322	5	199.54	99.07	5	27.20	17.51	0.6	↓	0.161
598C/598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	41.10	23.75	5	11.36	5.84	0.7	+	0.259	5	111.08	52.75	5	56.36	13.70	0.5	+	0.345
1522C/1522	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	13.38	4.97	5	3.02	2.70	0.5	↓	0.119	6	92.39	50.31	5	269.99	126.13	0.5	-	0.195
Habitat Means			0.00	0.00		0.00	0.00		o			20.82	12.97		7.85	6.18		-			158.31	81.55		90.49	44.37		+	
Fisher's		Power	---		Power-50%	---	P-value	0.732			Power	---		Power-50%	---	P-value	0.091			Power	0.212		Power-50%	0.212	P-value	0.123		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.056			Power	---		Power-50%	---	P-value	0.073		

(a) Genera not separated.

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

Site Pair	MVD	Ectocarpus sp. (AE) N	C	SE	N	O	SE	CV	D	P	E W t fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	27.18	26.86	6	3.28	3.28	1.3	-	0.565
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.07	0.07	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.25	0.25	1.4	-	0.670
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.17	0.13	6	10.23	9.49	1.3	-	0.185
Habitat Means			0.00	0.00		0.00	0.00		o			0.05	0.05		0.00	0.00		↓			5.47	5.40		2.75	2.61		-	
Fisher's		Power	---		Power-50%	---	P-value	0.732			Power	---		Power-50%	---	P-value	0.359			Power	0.031		Power-50%	0.031	P-value	0.259	y	
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.251			Power	0.076		Power-50%	0.070	P-value	0.264		
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.05	0.05	1.5	-	0.347	5	234.42	84.90	6	116.96	52.66	0.4	↓	0.253
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.34	1.17	6	0.00	0.00	1.1	+	0.018	5	19.84	10.44	6	0.19	0.18	0.7	+	0.150
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363	6	4.42	4.20	6	119.78	75.87	0.9	-	0.203
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.85	3.70	6	14.03	9.04	0.7	-	0.422
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.13	0.10	1.0	-	0.235	6	32.37	11.17	6	642.77	352.85	0.7	-	0.356
Habitat Means			0.00	0.00		0.00	0.00		o			0.27	0.24		0.04	0.03		+			59.38	22.88		178.74	98.12		-	
Fisher's		Power	---		Power-50%	---	P-value	0.732			Power	0.006		Power-50%	0.000	P-value	0.138			Power	0.026		Power-50%	0.026	P-value	0.315		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	0.000		Power-50%	0.000	P-value	0.139			Power	0.010		Power-50%	0.279	P-value	0.426		
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.1	-	0.753	5	253.52	156.03	6	64.29	34.14	0.6	+	0.476
453C/453	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	70.89	37.96	6	30.26	29.22	0.7	+	0.411
601C/601	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	199.18	99.24	5	27.01	17.34	0.6	+	0.166
598C/598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.02	0.02	1.3	-	0.324	5	110.16	53.20	5	56.34	13.69	0.5	+	0.356
1522C/1522	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.07	0.05	5	0.00	0.00	1.2	-	0.235	6	63.70	44.34	5	255.81	128.71	0.6	-	0.162
Habitat Means			0.00	0.00		0.00	0.00		o			0.01	0.01		0.01	0.01		-			139.49	78.15		86.74	44.62		↓	
Fisher's		Power	---		Power-50%	---	P-value	0.732			Power	0.001		Power-50%	0.001	P-value	0.386	y		Power	0.160		Power-50%	0.160	P-value	0.146		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	0.005		Power-50%	0.000	P-value	0.148			Power	---		Power-50%	---	P-value	0.100		

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

Table C-3.15. Algal Biomass. Phaeophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AS) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1522C/1522	1	6	0.00	0.00	6	28.94	28.94	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		5.79	5.79		-			0.00	0.00		0.00	0.00		-	o		0.00	0.00		0.00	0.00		-	o
Fisher's		Power	---		Power-50%		---		P-value	0.359	Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732
Stouffer's		Power	---		Power-50%		---		P-value	0.251	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00	1.3	-	0.374	5	0.00	0.00	6	0.00	0.00		-	o 1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1522C/1522	2	6	0.01	0.01	6	0.83	0.41	0.7	-	0.005	6	0.10	0.10	6	0.00	0.00	1.4	-	0.363	6	0.10	0.10	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.17	0.08		-			0.02	0.02		0.00	0.00		+			0.02	0.02		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---		P-value	0.048	Power	---		Power-50%		---		P-value	0.363	Power	---		Power-50%		---		P-value	0.536
Stouffer's		Power	0.049		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.255	Power	---		Power-50%		---		P-value	0.425
4825C/1424	3	5	51.05	43.51	6	4.08	2.42	1.0	+	0.823	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000
453C/453	3	5	13.09	10.85	6	0.27	0.27	1.0	+	0.006	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00		-	o 1.000
601C/601	3	5	0.36	0.36	5	0.19	0.19	1.0	+	0.676	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000
598C/598	3	5	0.92	0.89	5	0.00	0.00	1.4	+	0.359	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000
1522C/1522	3	6	28.62	27.50	5	14.17	13.91	1.1	+	0.671	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00		-	o 1.000
Habitat Means			18.81	16.62		3.74	3.36		+			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.021	Power	---		Power-50%		---		P-value	0.632 y	Power	---		Power-50%		---		P-value	0.732
Stouffer's		Power	---		Power-50%		0.289		P-value	0.009	Power	---		Power-50%		---		P-value	0.385	Power	---		Power-50%		---		P-value	0.500

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

Site Pair	MVD	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia fungiformis (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.542	Power	---		Power-50%		---		P-value	0.732	Power	---		Power-50%		---		P-value	0.732
Stouffer's		Power	---		Power-50%		---		P-value	0.319	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
4825C/1424	3	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000
453C/453	3	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.96	0.91	6	0.00	0.00	1.2	+	0.351	5	0.96	0.91	6	0.00	0.00	1.2	-	0.351
601C/601	3	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000
598C/598	3	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000
1522C/1522	3	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00		-	o 1.000	6	0.00	0.00	5	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.19	0.18		0.00	0.00		+			0.19	0.18		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---		P-value	0.632 y	Power	0.000		Power-50%	0.000	P-value			0.530	Power	0.000		Power-50%	0.000	P-value			0.530
Stouffer's		Power	---		Power-50%		---		P-value	0.385	Power	0.000		Power-50%	0.000	P-value			0.311	Power	0.000		Power-50%	0.000	P-value			0.311

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

Table C-3.16. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Constantinea simplex (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.44	0.44	6	0.54	0.46	0.9	-	0.878	6	0.13	0.13	6	0.07	0.07	1.1	+	0.664	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	4.09	4.07	6	29.17	29.17	1.3	-	0.795	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.02	0.02	6	1.95	1.56	1.1	-	0.162	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.67	0.27	6	0.22	0.22	0.6	+	0.222	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.06	0.03	6	103.24	101.07	1.4	-	0.261	6	0.00	0.00	6	0.28	0.25	1.2	-	0.301	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.05	0.96		27.02	26.50		-			0.03	0.03		0.07	0.06		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.048		Power-50%		0.103	P-value		0.233	Power	0.000		Power-50%		---	P-value		0.559 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.086		Power-50%		0.230	P-value		0.592	Power	0.000		Power-50%		---	P-value		0.372	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	6.89	4.72	6	8.22	7.53	0.9	-	0.890	5	4.80	4.68	6	7.71	7.23	1.0	-	0.755	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	150.95	122.27	6	3.40	2.28	1.0	+	0.033	5	0.06	0.06	6	0.15	0.15	1.2	-	0.626	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	27.54	22.55	6	33.92	19.63	0.7	-	0.835	6	0.55	0.51	6	1.85	1.17	0.8	-	0.333	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	15.34	15.34	6	2.47	2.04	1.2	+	0.340	6	0.00	0.00	6	0.42	0.27	0.9	-	0.035	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	98.84	63.30	6	372.76	137.93	0.5	-	0.101	6	0.14	0.12	6	22.03	14.19	0.9	-	0.037	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			59.91	45.63		84.15	33.88		-			1.11	1.07		6.43	4.60		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.027		Power-50%		0.144	P-value		0.464x	Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.041		Power-50%		0.248	P-value		0.929	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	203.95	122.91	6	782.47	348.39	0.6	-	0.183	5	52.86	28.18	6	330.85	199.39	0.8	-	0.064	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	1139.19	375.77	6	754.34	321.11	0.4	+	0.453	5	103.99	58.91	6	40.31	33.81	0.6	+	0.353	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	3	5	215.83	64.53	5	323.62	243.36	0.7	-	0.680	5	1.28	0.80	5	30.08	19.88	0.9	-	0.938	5	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	92.07	35.48	5	129.61	65.99	0.5	-	0.630	5	12.70	11.20	5	27.72	17.33	0.7	-	0.488	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	6	144.60	73.73	5	713.14	349.01	0.5	-	0.748	6	3.64	1.93	5	138.61	102.55	0.9	-	0.209	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			359.13	134.49		540.64	265.57		-			34.89	20.20		113.52	74.59		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.012		Power-50%		0.321	P-value		0.303	Power	---		Power-50%		---	P-value		0.096	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.022		Power-50%		0.396	P-value		0.373	Power	0.252		Power-50%		0.245	P-value		0.280	Power	---		Power-50%		---	P-value		0.500

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

		Gigartinaceae Group (P) (a)								Total Membranoptera (A)								Membranoptera weeksiae (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.13	0.13	6	0.07	0.07	1.1	+	0.664	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.28	0.24	1.2	-	0.300	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.03	0.03		0.07	0.06		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.555	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.003		Power-50%		---	P-value		0.438	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.08	0.08	6	7.30	7.30	1.5	-	0.474	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	0.06	0.06	6	0.00	0.00	1.2	+	0.357	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.03	0.03	6	0.20	0.20	1.2	-	0.885	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.08	0.05	0.9	-	0.337	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.14	0.12	6	21.04	13.37	0.9	-	0.037	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.06	0.06		5.73	4.18		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.097		Power-50%		0.446	P-value		0.206	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	48.90	25.57	6	137.27	67.51	0.6	-	0.287	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363
453C/453	3	5	62.17	36.49	6	23.90	19.86	0.6	+	0.359	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	3	5	1.02	0.67	5	24.28	19.08	1.1	-	0.777	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	9.56	9.17	5	25.64	17.60	0.8	-	0.441	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	6	3.64	1.93	5	30.51	19.03	0.7	-	0.283	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			25.06	14.76		48.32	28.62		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.297		Power-50%		0.271	P-value		0.218	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	0.404		Power-50%		0.460	P-value		0.292	Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.450

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.16. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Total Palmaria (A) N	C	SE	N	O	SE	CV	D	P	Palmaria spp. (A) N	C	SE	N	O	SE	CV	D	P	*Palmaria callophylloides* (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	*0.00*	*0.00*	6	*0.00*	*0.00*	-	o	*1.000*
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	3.74	2.94	6	81.37	50.28	0.9	-	0.342	5	0.12	0.12	6	0.00	0.00	1.3	+	0.600	5	3.62	2.97	6	76.13	46.65	0.9	-	0.287
453C/453	3	5	11.72	7.04	6	3.92	3.06	0.6	+	0.307	5	7.02	6.63	6	0.00	0.00	1.2	+	0.349	5	2.94	2.94	6	3.92	3.06	0.9	-	0.824
601C/601	3	5	0.08	0.08	5	5.48	5.48	1.4	-	0.980	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.08	0.08	5	5.48	5.48	1.4	-	0.980
598C/598	3	5	3.14	2.20	5	2.02	1.39	0.7	+	0.678	5	0.00	0.00	5	0.14	0.09	0.9	-	0.184	5	3.14	2.20	5	1.88	1.41	0.7	-	0.642
1522C/1522	3	6	0.00	0.00	5	10.10	4.57	0.6	-	0.047	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	10.10	4.57	0.6	-	0.092
Habitat Means			3.74	2.45		20.58	12.96		-			1.43	1.35		0.03	0.02		+			1.96	1.64		19.50	12.23		-	
Fisher's		Power	0.072		Power-50%		0.258	P-value		0.190	Power	0.002		Power-50%		0.001	P-value		0.366	Power	0.187		Power-50%		0.187	P-value		0.172
Stouffer's		Power	0.130		Power-50%		0.414	P-value		0.623	Power	0.021		Power-50%		0.007	P-value		0.608	Power	0.315		Power-50%		0.271	P-value		0.397

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

Site Pair	MVD	*Palmaria hecatensis* (A) N	C	SE	N	O	SE	CV	D	P	*Palmaria mollis* (A) N	C	SE	N	O	SE	CV	D	P	*Phycodrys riggii* (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			*0.00*	*0.00*		*0.00*	*0.00*		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.425
4825C/1424	3	5	0.00	0.00	6	3.65	3.65	1.6	-	0.363	5	0.00	0.00	6	1.58	1.58	1.6	-	0.363	5	0.00	0.00	6	3.17	3.17	1.6	-	0.363
453C/453	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.76	1.76	6	0.00	0.00	1.3	+	0.374	5	16.71	11.32	6	0.00	0.00	0.9	+	0.000
601C/601	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	5	0.00	0.00	-	o	*1.000*	6	*0.00*	*0.00*	5	*0.00*	*0.00*	-	o	*1.000*	6	0.00	0.00	5	10.76	9.36	1.1	-	0.314
Habitat Means			0.00	0.00		0.73	0.73		-			0.35	0.35		0.32	0.32		-			3.34	2.26		2.79	2.51		-	
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.630 y	Power	0.000		Power-50%		0.000	P-value		0.451xy
Stouffer's		Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.635	Power	0.000		Power-50%		0.000	P-value		0.943

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

Table C-3.16. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Rhodymenia pertusa (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	1.4	<	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50% ---			P-value		0.632 y	Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		0.732
Stouffer's		Power ---			Power-50% ---			P-value		0.385	Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		0.500
4825C/1424	2	5	4.72	4.70	6	0.40	0.40	1.2	+	0.645	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.15	0.15	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.52	0.52	6	1.65	1.05	0.8	-	0.355	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.33	0.28	1.2	-	0.280	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.70	0.70	1.4	-	0.363
1522C/1522	2	6	0.00	0.00	6	0.29	0.28	1.4	-	0.357	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.70	0.70	1.4	-	0.363
Habitat Means			1.05	1.04		0.56	0.43		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.14	0.14		-	
Fisher's		Power 0.108			Power-50% 0.000			P-value		0.131 y	Power ---			Power-50% ---			P-value		0.732	Power ---			Power-50% ---			P-value		0.536
Stouffer's		Power ---			Power-50% 0.000			P-value		0.048	Power ---			Power-50% ---			P-value		0.500	Power ---			Power-50% ---			P-value		0.425
4825C/1424	3	5	0.22	0.22	6	0.42	0.42	1.1	-	0.702	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	108.62	84.84	1.2	-	0.257
453C/453	3	5	0.00	0.00	6	0.10	0.10	1.5	-	0.355	5	0.00	0.00	6	1.18	1.18	1.6	-	0.363	5	13.38	8.77	6	11.20	11.20	0.8	+	0.885
601C/601	3	5	0.18	0.18	5	0.26	0.26	1.0	-	0.811	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.06	0.06	1.4	-	0.374
598C/598	3	5	0.00	0.00	5	0.06	0.06	1.4	-	0.723	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	5	0.40	0.28	0.9	-	0.220	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	86.84	86.69	1.3	-	0.373
Habitat Means			0.08	0.08		0.25	0.22		-			0.00	0.00		0.24	0.24		-			2.68	1.75		41.34	36.56		-	
Fisher's		Power 0.063			Power-50% 0.001			P-value		0.182	Power ---			Power-50% ---			P-value		0.536	Power 0.008			Power-50% 0.008			P-value		0.204
Stouffer's		Power 0.165			Power-50% 0.002			P-value		0.130	Power ---			Power-50% ---			P-value		0.315	Power 0.119			Power-50% 0.001			P-value		0.329

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

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.30	0.30	6	0.03	0.02	1.3	<	0.766	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	4.09	4.07	6	29.17	29.17	1.3	-	0.795	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	0.00	0.00	1.4	<	0.363
601C/601	1	6	0.02	0.02	6	1.95	1.56	1.1	-	0.162	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.67	0.27	6	0.22	0.22	0.6	+	0.222	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.06	0.03	6	102.39	100.26	1.4	-	0.269	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.02	0.02	1.3	-	0.315
Habitat Means			1.03	0.94		26.75	26.25		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power 0.038			Power-50%		0.120	P-value		0.279	Power ---			Power-50%			P-value		0.732	Power 0.000			Power-50%		0.000	P-value		0.604
Stouffer's		Power 0.066			Power-50%		0.274	P-value		0.617	Power ---			Power-50%			P-value		0.500	Power 0.000			Power-50%		---	P-value		0.608
4825C/1424	2	5	1.76	1.48	6	0.29	0.17	0.9	<	0.748	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	148.86	122.51	6	3.25	2.31	1.0	+	0.027	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.98	0.86	6	0.00	0.00	1.1	>	0.317
601C/601	2	6	26.99	22.56	6	31.63	19.95	0.7	-	0.880	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
598C/598	2	6	15.29	15.28	6	2.05	2.05	1.3	+	0.720	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	98.70	63.20	6	324.61	142.51	0.5	-	0.178	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	22.45	14.31	0.9	-	0.078
Habitat Means			58.32	45.01		72.37	33.40		+			0.00	0.00		0.00	0.00		o			0.20	0.18		4.49	2.86		+	
Fisher's		Power 0.026			Power-50%		0.134	P-value		0.173 y	Power ---			Power-50%			P-value		0.732	Power 0.000			Power-50%		0.000	P-value		0.445xy
Stouffer's		Power 0.044			Power-50%		0.287	P-value		0.118	Power ---			Power-50%			P-value		0.500	Power 0.000			Power-50%		0.119	P-value		0.354
4825C/1424	3	5	143.06	88.58	6	283.44	125.54	0.5	-	0.404	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	23.34	13.36	6	108.92	59.81	0.7	-	0.554
453C/453	3	5	974.72	370.79	6	583.71	299.07	0.4	+	0.427	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	73.74	63.30	6	197.13	132.88	0.8	-	0.454
601C/601	3	5	209.95	64.44	5	273.40	215.01	0.7	-	0.785	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	4.88	2.90	5	58.66	36.17	0.8	-	0.859
598C/598	3	5	68.24	27.09	5	92.92	59.59	0.6	-	0.716	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.06	1.06	5	46.86	37.45	1.1	-	0.191
1522C/1522	3	6	132.16	64.90	5	489.23	211.72	0.5	-	0.114	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	31.00	28.19	5	36.92	18.46	0.7	-	0.871
Habitat Means			305.63	123.16		344.54	182.19		-			0.00	0.00		0.00	0.00		o			26.80	21.76		89.70	56.96		-	
Fisher's		Power 0.022			Power-50%		0.295	P-value		0.206	Power ---			Power-50%			P-value		0.732	Power 0.502			Power-50%		0.502	P-value		0.193
[illegible]		Power 0.034			Power-50%		0.389	P-value		0.356	Power ---			Power-50%			P-value		0.500	Power ---			Power-50%		---	P-value		0.058

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

Table C-3.16. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Dumontia contorta (AE) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.02	0.02	1.4	-	0.363
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.1	-	0.664
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	1.65	1.61	1.4	-	0.249
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.67	0.27	6	0.22	0.22	0.6	+	0.223
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	0.04	0.04	1.0	-	0.705
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.14	0.06		0.38	0.38		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.013		Power-50%		0.013	P-value		0.278
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.033		Power-50%		0.368	P-value		0.597
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	0.6	+	0.840
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.14	0.10	6	0.03	0.03	0.8	+	0.283
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.34	0.33	1.4	+	0.392
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.03	0.02		0.07	0.07		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536	Power	0.054		Power-50%		0.054	P-value		0.157 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.075
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	0.24	0.22	6	0.03	0.03	1.0	+	0.413	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.22	2.19	6	0.00	0.00	1.3	+	0.369
601C/601	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	0.9	+	0.178
598C/598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.06	0.06	5	0.00	0.00	1.4	+	0.374
1522C/1522	3	6	0.00	0.00	5	0.06	0.04	0.8	-	0.208	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374
Habitat Means			0.05	0.04		0.02	0.02		-			0.00	0.00		0.00	0.00		o			0.46	0.45		0.00	0.00		+	
Fisher's		Power	0.001		Power-50%		0.000	P-value		0.344 y	Power	---		Power-50%		---	P-value		0.732	Power	0.002		Power-50%		0.002	P-value		0.203
Stouffer's		Power	0.013		Power-50%		0.000	P-value		0.519	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.098

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

Site Pair	MVD	Microcladia borealis (A) N	C	SE	N	O	SE	CV	D	P	Nemalion helminthoides (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.30	0.30	6	0.02	0.02	1.3	-	0.814
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.07	4.07	6	29.17	29.16	1.3	-	0.889
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.30	0.22	1.0	-	0.224
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.04	0.03	6	102.34	100.27	1.4	-	0.091
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.88	0.88		26.36	25.93		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.008		Power-50%		0.008	P-value		0.190
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.036		Power-50%		0.158	P-value		0.512
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.76	1.48	6	0.29	0.17	0.9	+	0.796
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	147.73	121.57	6	3.22	2.32	1.0	-	0.017
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	26.99	22.56	6	31.63	19.95	0.7	-	0.880
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	15.29	15.28	6	2.05	2.05	1.3	+	0.720
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	98.68	63.20	6	301.82	145.72	0.6	-	0.230
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			58.09	44.82		67.80	34.04		+	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.032		Power-50%		0.032	P-value		0.137 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.097
4825C/1424	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	116.18	73.43	6	108.77	39.58	0.5	+	0.928
453C/453	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	885.37	330.54	6	385.15	234.06	0.4	+	0.237
601C/601	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	205.06	65.13	5	214.74	191.45	0.7	-	0.963
598C/598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	67.12	26.26	5	38.80	23.72	0.5	+	0.447
1522C/1522	3	6	0.00	0.00	5	0.16	0.16	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	97.11	40.08	5	440.57	192.41	0.5	-	0.748
Habitat Means			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		o			274.17	107.09		237.61	136.24		+	
Fisher's		Power	---		Power-50%		---	P-value		0.542	Power	---		Power-50%		---	P-value		0.732	Power	0.101		Power-50%		0.101	P-value		0.354
Stouffer's		Power	---		Power-50%		---	P-value		0.427	Power	---		Power-50%		---	P-value		0.500	Power	0.071		Power-50%		0.398	P-value		0.124

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

Table C-3.16. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.30	0.30	6	0.02	0.02	1.3	+	0.814	5	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	4.07	4.07	6	29.17	29.16	1.3	-	0.889	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.30	0.22	1.0	-	0.224	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.04	0.03	6	102.34	100.27	1.4	-	0.091	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.88	0.88		26.36	25.93		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.010		Power-50%		0.016	P-value		0.190	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	0.040		Power-50%		0.169	P-value		0.512	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	1.76	1.48	6	0.29	0.17	0.9	+	0.796	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	54.81	29.33	6	3.22	2.32	0.6	+	0.018	5	92.92	92.92	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	26.99	22.56	6	31.63	19.95	0.7	-	0.880	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	15.29	15.28	6	2.05	2.05	1.3	+	0.720	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	98.68	63.20	6	293.50	137.69	0.5	-	0.228	6	0.00	0.00	6	8.32	8.32	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			39.51	26.37		66.14	32.44		+			18.58	18.58		1.66	1.66		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.032		Power-50%		0.183	P-value		0.142 y	Power	---		Power-50%		---	P-value		0.630 y	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		0.369	P-value		0.099	Power	---		Power-50%		---	P-value		0.611	Power	---		Power-50%		---	P-value		0.500
4825C/1424	3	5	116.18	73.43	6	108.41	39.73	0.5	+	0.924	5	0.00	0.00	6	0.37	0.37	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	673.65	364.57	6	385.15	234.06	0.6	+	0.508	5	211.72	192.93	6	0.00	0.00	1.2	+	0.334	5	0.04	0.04	6	0.02	0.02	1.0	-	0.579
601C/601	3	5	205.06	65.13	5	214.74	191.45	0.7	-	0.963	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	67.12	26.26	5	38.80	23.72	0.5	+	0.447	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	6	97.11	40.08	5	377.05	160.26	0.4	-	0.097	6	0.00	0.00	5	63.52	52.86	1.1	+	0.296	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			231.83	113.89		224.83	129.84		+			42.34	38.59		12.78	10.65		-			0.01	0.01		0.00	0.00		-	
Fisher's		Power	0.040		Power-50%		0.181	P-value		0.561x	Power	0.000		Power-50%		0.000	P-value		0.408 y	Power	---		Power-50%		---	P-value		0.626
Stouffer's		Power	0.042		Power-50%		0.269	P-value		0.275	Power	0.001		Power-50%		0.000	P-value		0.567	Power	---		Power-50%		---	P-value		0.384

(b) Neorhodomela larix not included.

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

Site Pair	MVD	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.05	0.05	1.3	-	0.423
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.57	0.56	1.4	-	0.360
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.12	0.12		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.000	P-value		0.382
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.014		Power-50%		---	P-value		0.382
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.26	0.26	6	0.13	0.09	0.9	+	0.601
453C/453	2	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.25	0.19	6	0.00	0.00	1.0	+	0.265
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.44	0.38	1.2	-	0.161
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.05	0.05	6	0.00	0.00	1.4	+	0.363
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	4.43	3.04	1.0	-	0.003
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.11	0.10		1.00	0.70		+	
Fisher's		Power	---		Power-50%		---	P-value		0.630 y	Power	---		Power-50%		---	P-value		0.732	Power	0.004		Power-50%		0.004	P-value		0.438xy
Stouffer's		Power	---		Power-50%		---	P-value		0.611	Power	---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		0.411	P-value		0.336
4825C/1424	3	5	3.54	3.42	6	62.77	54.12	1.3	-	0.130	5	0.00	0.00	6	2.99	2.98	1.6	-	0.363	5	2.83	2.77	6	147.45	90.55	0.9	-	0.006
453C/453	3	5	4.30	2.87	6	1.37	1.35	0.7	+	0.353	5	8.82	8.82	6	0.00	0.00	1.3	+	0.482	5	43.51	42.41	6	129.82	94.32	0.9	-	0.457
601C/601	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	3.30	1.68	5	9.34	9.29	1.1	-	0.268
598C/598	3	5	0.00	0.00	5	7.26	5.19	1.0	-	0.234	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	10.96	2.88	5	8.01	6.04	0.5	+	0.670
1522C/1522	3	6	4.05	4.05	5	6.16	4.29	0.8	-	0.730	6	0.00	0.00	5	5.36	5.11	1.2	-	0.354	6	0.87	0.50	5	47.02	31.15	0.8	-	0.455
Habitat Means			2.38	2.07		15.51	12.99		-			1.76	1.76		1.67	1.62		-			12.29	10.05		68.33	46.27		-	
Fisher's		Power	0.053		Power-50%		0.011	P-value		0.194	Power	0.000		Power-50%		---	P-value		0.423 y	Power	---		Power-50%		---	P-value		0.013
Stouffer's		Power	0.146		Power-50%		0.025	P-value		0.238	Power	0.014		Power-50%		---	P-value		0.521	Power	0.104		Power-50%		0.283	P-value		0.195

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

Table C-3.16. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Antithamnion/Antithamnionella (A) (b) N	C	SE	N	O	SE	CV	D	P	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.05	0.05	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.01	0.01		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.500
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.25	0.15	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.03	0.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.359	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.376	Power	---		Power-50%		---	P-value		0.425
4825C/1424	3	5	0.00	0.00	6	0.90	0.90	1.5	-	0.751	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	20.77	10.35	0.8	-	0.101
453C/453	3	5	0.01	0.00	6	0.00	0.00	0.6	+	0.134	5	0.00	0.00	6	0.00	0.00	1.0	-	0.175	5	1.17	1.17	6	0.17	0.17	1.1	-	0.987
601C/601	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
598C/598	3	5	0.00	0.00	5	0.00	0.00	1.4	+	0.374	5	0.08	0.08	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.06	0.06	1.3	-	0.374
Habitat Means			0.00	0.00		0.18	0.18		+			0.02	0.02		0.00	0.00		-			0.23	0.23		4.20	2.12		-	
Fisher's		Power	0.002		Power-50%		0.271	P-value		0.255 y	Power	0.017		Power-50%		---	P-value		0.322 y	Power	0.003		Power-50%		0.003	P-value		0.199
Stouffer's		Power	---		Power-50%		0.298	P-value		0.075	Power	0.038		Power-50%		---	P-value		0.438	Power	0.102		Power-50%		0.000	P-value		0.343

(b) Genera not separated.

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

Site Pair	MVD	Ceramium sp. (A) N	C	SE	N	O	SE	CV	D	P	Gloiosiphonia capillaris (A) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.57	0.56	1.4	-	0.360
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.11	0.11		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.000		Power-50%		0.000	P-value		0.535
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		---	P-value		0.425
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.26	0.26	6	0.12	0.08	0.9	+	0.596
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.25	0.19	6	0.00	0.00	1.0	-	0.265
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.44	0.38	1.2	-	0.161
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.05	0.05	6	0.00	0.00	1.4	-	0.363
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	4.28	3.05	1.0	-	0.003
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.11	0.10		0.97	0.70		-	
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	0.004		Power-50%		0.004	P-value		0.437xy
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.003		Power-50%		0.416	P-value		0.336
4825C/1424	3	5	0.00	0.00	6	1.21	1.21	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.82	2.77	6	114.48	87.53	1.2	-	0.008
453C/453	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	38.11	37.02	6	129.64	94.31	0.9	-	0.425
601C/601	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	3.30	1.68	5	9.34	9.29	1.1	-	0.268
598C/598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	10.88	2.90	5	8.01	6.04	0.5	+	0.679
1522C/1522	3	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.87	0.50	5	45.79	29.97	0.8	-	0.456
Habitat Means			0.00	0.00		0.24	0.24		-			0.00	0.00		0.00	0.00		o			11.20	8.97		61.45	45.43		-	
Fisher's		Power	---		Power-50%		---	P-value		0.363	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.015
Stouffer's		Power	---		Power-50%		---	P-value		0.378	Power	---		Power-50%		---	P-value		0.500	Power	0.089		Power-50%		0.268	P-value		0.188

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

Table C-3.16. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Scagelia/Hollenbergia (P) (b)								Morphological Group - Saccate Reds								Total Halosaccion (A)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.38	0.38	1.4	-	0.363	6	0.00	0.00	6	0.38	0.38	1.4	-	0.363
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-			0.00	0.00		0.08	0.08		-	
Fisher's		Power	---		Power-50%	---		P-value	0.732		Power	---		Power-50%	---		P-value	0.536		Power	---		Power-50%	---		P-value	0.536	
Stouffer's		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.450		Power	---		Power-50%	---		P-value	0.450	
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.06	0.06	6	0.10	0.10	1.1	-	0.753	5	0.06	0.06	6	0.10	0.10	1.1	-	0.753
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.78	1.21	6	0.00	0.00	0.9	+	0.214	5	1.78	1.21	6	0.00	0.00	0.9	+	0.214
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	19.63	15.12	1.1	-	0.251	6	0.00	0.00	6	19.63	15.12	1.1	-	0.251
Habitat Means			0.00	0.00		0.00	0.00		o			0.37	0.25		3.95	3.04		-			0.37	0.25		3.95	3.04		-	
Fisher's		Power	---		Power-50%	---		P-value	0.732		Power	0.000		Power-50%	0.000		P-value	0.522		Power	0.000		Power-50%	0.000		P-value	0.522	
Stouffer's		Power	---		Power-50%	---		P-value	0.500		Power	0.000		Power-50%	0.000		P-value	0.647		Power	0.000		Power-50%	0.000		P-value	0.647	
4825C/1424	3	5	0.00	0.00	6	10.09	6.28	1.0	-	0.169	5	5.20	4.67	6	18.45	10.39	0.7	-	0.307	5	5.20	4.67	6	18.45	10.39	0.7	-	0.307
453C/453	3	5	4.22	4.22	6	0.00	0.00	1.3	+	0.291	5	8.58	3.23	6	0.50	0.50	0.5	+	0.044	5	8.58	3.23	6	0.50	0.50	0.5	+	0.044
601C/601	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.30	1.30	5	10.80	10.70	1.3	-	0.572	5	1.30	1.30	5	10.80	10.70	1.3	-	0.572
598C/598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.16	0.16	5	0.96	0.89	1.1	-	0.528	5	0.16	0.16	5	0.96	0.89	1.1	-	0.528
1522C/1522	3	6	0.00	0.00	5	1.16	1.16	1.3	-	0.374	6	7.87	7.87	5	27.54	19.32	0.8	-	0.339	6	7.87	7.87	5	27.54	19.32	0.8	-	0.339
Habitat Means			0.84	0.84		2.25	1.49		-			4.62	3.45		11.65	8.36		-			4.62	3.45		11.65	8.36		-	
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.329		Power	0.044		Power-50%	0.073		P-value	0.252x		Power	0.039		Power-50%	0.039		P-value	0.252x	
Stouffer's		Power	0.025		Power-50%	0.000		P-value	0.573		Power	0.088		Power-50%	0.209		P-value	0.544		Power	0.077		Power-50%	0.210		P-value	0.544	

(b) Genera not separated.

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

Site Pair	MVD	Halosaccion spp. (A)								Halosaccion glandiforme (A)								Morphological Group - Calcified Reds							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.38	0.38	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value	0.732		Power	---		Power-50%	---		P-value	0.536		Power	---		Power-50%	---		P-value	0.732	
Stouffer's		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.450		Power	---		Power-50%	---		P-value	0.500	
4825C/1424	2	5	0.06	0.06	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.10	0.10	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1.78	1.21	6	0.00	0.00	0.9	+	0.214	5	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	19.63	15.12	1.1	-	0.251	6	0.00	0.00	6	2.05	2.05	1.4	-	0.363
Habitat Means			0.01	0.01		0.00	0.00		+			0.36	0.24		3.95	3.04		-			0.00	0.00		0.41	0.41		-	
Fisher's		Power	---		Power-50%	---		P-value	0.542		Power	0.000		Power-50%	0.000		P-value	0.393		Power	---		Power-50%	---		P-value	0.536	
Stouffer's		Power	---		Power-50%	---		P-value	0.451		Power	0.000		Power-50%	0.000		P-value	0.616		Power	---		Power-50%	---		P-value	0.425	
4825C/1424	3	5	5.20	4.67	6	0.00	0.00	1.1	+	0.328	5	0.00	0.00	6	18.45	10.39	0.9	-	0.005	5	0.00	0.00	6	2.28	2.16	1.5	-	0.217
453C/453	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	8.58	3.23	6	0.50	0.50	0.5	+	0.044	5	8.39	5.65	6	0.00	0.00	0.9	+	0.005
601C/601	3	5	1.30	1.30	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	10.80	10.70	1.4	-	0.370	5	0.00	0.00	5	0.00	0.00	1.4	+	0.374
598C/598	3	5	0.16	0.16	5	0.90	0.90	1.2	-	0.906	5	0.00	0.00	5	0.06	0.06	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1522C/1522	3	6	7.87	7.87	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	27.54	19.32	0.9	-	0.227	6	0.07	0.07	5	10.73	6.60	0.8	-	0.160
Habitat Means			2.91	2.80		0.18	0.18		+			1.72	0.65		11.47	8.19		-			1.69	1.14		2.60	1.75		+	
Fisher's		Power	0.015		Power-50%	0.026		P-value	0.225		Power	---		Power-50%	---		P-value	0.010x		Power	---		Power-50%	---		P-value	0.074 y	
Stouffer's		Power	0.134		Power-50%	0.113		P-value	0.331		Power	0.267		Power-50%	0.028		P-value	0.319		Power	0.003		Power-50%	0.188		P-value	0.121	

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

Table C-3.16. Algal Biomass. Rhodophyta. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

		Articulate Coralline Algae (A)								Clathromorphum recliniatum (P)																
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
598C/598	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1522C/1522	2	6	0.00	0.00	6	2.05	2.05	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.41	0.41		-			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.425	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
4825C/1424	3	5	0.00	0.00	6	2.28	2.16	1.5	-	0.217	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
453C/453	3	5	8.39	5.65	6	0.00	0.00	0.9	+	0.005	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
601C/601	3	5	0.00	0.00	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
598C/598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
1522C/1522	3	6	0.07	0.07	5	10.73	6.60	0.8	-	0.160	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			1.69	1.14		2.60	1.75		+			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.074 y	Power	---		Power-50%		---	P-value		0.732	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.004		Power-50%		0.191	P-value		0.111	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

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

Table C-3.17. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Algal Taxa Richness (a) N	C	SE	N	O	SE	CV	D	P	Total Algae N	C	SE	N	O	SE	CV	D	P	Perennials (P) N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	1.00	0.58	-		---	0	--	--	3	271.13	210.49	-		---	0	--	--	3	271.13	210.49	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		1.00	0.58					--	--		271.13	210.49					--	--		271.13	210.49			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	2.00	0.58	-		---	0	--	--	3	47.60	22.16	-		---	0	--	--	3	47.20	22.13	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		2.00	0.58					--	--		47.60	22.16					--	--		47.20	22.13			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	8.67	3.53	-		---	0	--	--	3	557.24	377.18	-		---	0	--	--	3	415.85	382.21	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		8.67	3.53					--	--		557.24	377.18					--	--		415.85	382.21			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) 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.

Site Pair	MVD	Annuals (A) N	C	SE	N	O	SE	CV	D	P	Ephemerals (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.40	0.40	-		---	0	--	--	3	0.00	0.00	-		---									
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
Habitat Means			--	--		0.40	0.40					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	141.39	96.03				0	--	--	3	135.55	93.96	-		---									
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
Habitat Means			--	--		141.39	96.03					--	--		135.55	93.96												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.18. Algal Biomass. Chlorophyta. Prince William Sound. Coarse Textured. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.40	0.40	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.40	0.40					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	28.16	25.75	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		28.16	25.75					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--		3	0.00	0.00	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(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-3.18. Algal Biomass. Chlorophyta. Prince William Sound. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.40	0.40	-		---	0	--	--	3	0.40	0.40	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.40	0.40					--	--		0.40	0.40					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	28.16	25.75	-		---	0	--	--	3	1.23	0.99	-		---	0	--	--	3	0.27	0.27	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		28.16	25.75					--	--		1.23	0.99					--	--		0.27	0.27			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha melagonium (A) N	C	SE	N	O	SE	CV	D	P	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	0.27	0.27	-		---	0	--	--	3	0.00	0.00	-		---	0			3	26.66	25.81	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.27	0.27					--	--		0.00	0.00					--	--		26.66	25.81			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Chaetomorpha melagonium not included.

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

Table C-3.18. Algal Biomass. Chlorophyta. Prince William Sound. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Gomontia polyrhiza (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00			
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
506C/506	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.19. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus cottonii (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	271.10	210.50	-		---	0	--	--	3	271.10	210.50	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		271.10	210.50					--	--		271.10	210.50					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	46.93	22.37	-		---	0	--	--	3	46.93	22.37	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		46.93	22.37					--	--		46.93	22.37					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	463.89	298.66	-		---	0	--	--	3	354.10	328.31	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		463.89	298.66					--	--		354.10	328.31					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Fucus gardneri (P)								Petalonia fascia (AE)								Total Punctaria (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	271.10	210.50	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		271.10	210.50					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	46.93	22.37	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		46.93	22.37					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	354.10	328.31	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		354.10	328.31					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.19. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Punctaria spp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	108.89	102.78	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		108.89	102.78			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

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

Table C-3.19. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Ectocarpus sp. (AE) N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---
Stouffer's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---
Stouffer's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---
506C/506	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	3.11	3.10	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		3.11	3.10			
Fisher's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---
Stouffer's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---

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

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---
Stouffer's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---
Stouffer's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---
506C/506	3	0	--	--	3	105.78	104.28	-		---	0	--	--	3	0.90	0.90	-		---	0	--	--	3	0.90	0.90	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		105.78	104.28					--	--		0.90	0.90					--	--		0.90	0.90			
Fisher's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---
Stouffer's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---

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

Table C-3.19. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. September 1989. (Continued.)

		Soranthera ulvoidea (A)																							
Site Pair	MTD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
1598C/1598	1	0	--	--	0	--		-		---																		
846C/846	1	0	--	--	0	--		-		---																		
1650C/1650	1	0	--	--	0	--		-		---																		
Habitat Means			--	--		0.00																						
Fisher's		Power	---		Power-50%			value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%			value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	2	0	--	--	3	0.00		-		---																		
1598C/1598	2	0	--	--	0	--		-		---																		
846C/846	2	0	--	--	0	--		-		---																		
1650C/1650	2	0	--	--	0	--		-		---																		
Habitat Means			--	--		0.00																						
Fisher's		Power	---		Power-50%			-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%			-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	3	0	--	--	3	0.00		-		---																		
1598C/1598	3	0	--	--	0	--		-		---																		
846C/846	3	0	--	--	0	--		-		---																		
1650C/1650	3	0	--	--	0	--		-		---																		
Habitat Means			--	--		0.00																						
Fisher's		Power	---		Power-50%			-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%			-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.20. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta							Morphological Group - Bladed Reds							Gigartinaceae Group (P) (a)						
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.03	0.03	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.03	0.03					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.27	0.27	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.27	0.27					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	65.19	55.28	-		---	0	--	--	3	0.71	0.70	-		---	0	--	--	3	0.71	0.70	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		65.19	55.28					--	--		0.71	0.70					--	--		0.71	0.70			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Total Palmaria (A)							Palmaria spp. (A)							Palmaria callophylloides (A)						
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.20. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.03	0.03	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.03	0.03					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.27	0.27	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.27	0.27					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	61.48	53.10	-		---	0	--	--	3	18.67	18.67	-		---	0	--	--	3	0.07	0.07	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		61.48	53.10					--	--		18.67	18.67					--	--		0.07	0.07			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.20. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.03	0.03	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.03	0.03			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.27	0.27	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.27	0.27			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.37	0.37	-		---	0	--	--	3	42.37	34.68	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.37	0.37					--	--		42.37	34.68			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.03	0.03					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.27	0.27	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.27	0.27					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	42.37	34.68	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	1.07	1.06	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		42.37	34.68					--	--		0.00	0.00					--	--		1.07	1.06			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Neorhodomela larix not included.

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

Table C-3.20. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	*Audouinella purpurea (AE)* N	C	SE	N	O	SE	CV	D	P	*Polysiphonia/Pterosiphonia (A) (a)* N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	1.07	1.06	-		---	0	--	--	3	1.93	1.93	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		1.07	1.06					--	--		1.93	1.93			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

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

Site Pair	MVD	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	3	1.93	1.93	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	1.93	1.93	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		1.93	1.93					--	--		0.00	0.00					--	--		1.93	1.93			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.21. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)							Total Algae							Perennials (P)						
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.83	0.65	4	0.00	0.00	1.4	+	0.259	6	148.01	143.00	4	0.00	0.00	1.7	+	0.348	6	148.00	143.00	4	0.00	0.00	1.7	+	0.348
1598C/1598	1	5	0.40	0.40	5	0.00	0.00	1.4	+	0.374	5	173.02	173.02	5	0.00	0.00	1.4	+	0.374	5	173.02	173.02	5	0.00	0.00	1.4	+	0.374
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.31	0.26		0.00	0.00		+			80.26	79.01		0.00	0.00		+			80.26	79.01		0.00	0.00		+	
Fisher's		Power	0.006		Power-50%		0.004	P-value		0.250	Power	0.000		Power-50%		0.000	P-value		0.293	Power	0.000		Power-50%		0.000	P-value		0.293
Stouffer's		Power	0.006		Power-50%		0.007	P-value		0.203	Power	0.001		Power-50%		0.001	P-value		0.203	Power	0.001		Power-50%		0.001	P-value		0.203
506C/506	2	6	3.33	1.26	4	1.75	1.11	0.5	+	0.404	6	1127.76	575.80	4	98.53	82.12	0.8	+	0.836	6	1127.10	575.76	4	85.65	85.65	0.8	+	0.215
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.50	0.50	6	0.33	0.21	0.9	+	0.765	6	1.39	1.39	6	1.72	1.54	0.9	-	0.877	6	1.38	1.38	6	1.57	1.57	1.0	-	0.932
1650C/1650	2	6	0.67	0.21	6	0.00	0.00	0.4	+	0.025	6	1530.50	826.61	6	0.00	0.00	0.8	+	0.123	6	1530.50	826.61	6	0.00	0.00	0.8	+	0.123
Habitat Means			1.13	0.49		0.52	0.33		+			664.91	350.95		25.06	20.92		+			664.75	350.94		21.81	21.81		-	
Fisher's		Power	---		Power-50%		---	P-value		0.054	Power	0.082		Power-50%		0.059	P-value		0.275	Power	0.150		Power-50%		0.150	P-value		0.124
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.264	Power	0.000		Power-50%		0.000	P-value		0.370	Power	0.000		Power-50%		0.000	P-value		0.361
506C/506	3	5	6.60	1.47	4	7.00	4.36	0.4	-	0.926	5	976.75	288.29	4	768.72	693.60	0.6	+	0.772	5	546.34	131.42	4	499.58	495.35	0.6	+	0.922
1598C/1598	3	4	4.00	1.96	5	0.80	0.37	0.5	+	0.114	4	722.66	392.77	5	110.64	95.59	0.6	+	0.134	4	611.35	417.62	5	109.16	94.11	0.7	+	0.230
846C/846	3	5	0.40	0.24	5	0.60	0.40	0.7	-	0.681	5	192.74	178.43	5	260.36	180.21	0.8	-	0.797	5	192.74	178.43	5	260.36	180.21	0.8	-	0.797
1650C/1650	3	6	3.50	1.65	6	0.17	0.17	0.6	+	0.099	6	673.48	302.19	6	0.83	0.83	0.6	+	0.006	6	649.15	291.52	6	0.00	0.00	0.6	+	0.077
Habitat Means			3.63	1.33		2.14	1.33		+			641.40	290.42		285.14	242.56		+			499.90	254.75		217.27	192.42		+	
Fisher's		Power	---		Power-50%		---	P-value		0.087	Power	---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value		0.098
Stouffer's		Power	--		Power-50%		0.483	P-value		0.039	Power	---		Power-50%		---	P-value		0.024	Power	---		Power-50%		---	P-value		0.070

(a) 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.

		Annuals (A)							Ephemerals (AE)													
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.01	0.01	4	0.00	0.00	1.7	+	0.348	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		
506C/506	2	6	0.66	0.33	4	12.88	11.23	0.9	-	0.489	6	0.40	0.19	4	0.00	0.00	0.8	+	0.090									
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
846C/846	2	6	0.00	0.00	6	0.15	0.15	1.4	-	0.726	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.17	0.08		3.26	2.84		-			0.10	0.05		0.00	0.00		+										
Fisher's		Power	0.022		Power-50%		0.002	P-value		0.472	Power	0.000		Power-50%		0.000	P-value		0.241	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.460	Power	0.000		Power-50%		0.000	P-value		0.497	Power	---		Power-50%		---	P-value		
506C/506	3	5	430.40	184.54	4	269.15	202.79	0.6	+	0.576	5	423.04	182.79	4	172.62	113.60	0.5	+	0.312									
1598C/1598	3	4	111.31	66.27	5	1.48	1.48	0.7	+	0.297	4	110.28	65.56	5	1.48	1.48	0.7	+	0.298									
846C/846	3	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374									
1650C/1650	3	6	24.32	24.32	6	0.83	0.83	1.4	+	0.441	6	16.15	16.15	6	0.83	0.83	1.3	+	0.673									
Habitat Means			141.51	68.78		67.87	51.28		+			137.37	66.12		43.73	28.98		+										
Fisher's		Power	0.016		Power-50%		0.024	P-value		0.284	Power	0.009		Power-50%		0.022	P-value		0.257	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.025		Power-50%		0.032	P-value		0.180	Power	0.016		Power-50%		0.043	P-value		0.203	Power	---		Power-50%		---	P-value		

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

Table C-3.22. Algal Biomass. Chlorophyta. Prince William Sound. Coarse Textured. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Total Chlorophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group - Bladed Greens N	C	SE	N	O	SE	CV	D	P	Kornmannia leptoderma (AE) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.40	0.19	4	0.00	0.00	0.8	+	0.090	6	0.03	0.03	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.05		0.00	0.00		+			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.000	P-value		0.241	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.497	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	148.43	102.39	4	161.85	110.69	0.7	-	0.932	5	1.64	0.88	4	3.40	3.40	0.9	-	0.594	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	46.89	45.15	5	1.48	1.48	1.2	+	0.357	4	0.20	0.20	5	0.00	0.00	1.2	+	0.384	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	14.85	14.85	6	0.83	0.83	1.3	+	0.872	6	1.93	1.93	6	0.83	0.83	1.1	+	0.613	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			52.54	40.60		41.04	28.25		+			0.94	0.75		1.06	1.06		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.011		Power-50%		0.042	P-value		0.561	Power	0.004		Power-50%		0.008	P-value		0.458 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.031		Power-50%		0.054	P-value		0.258	Power	0.008		Power-50%		0.035	P-value		0.176	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Monostroma/Ulvaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Total Ulva (AE) N	C	SE	N	O	SE	CV	D	P	Ulva spp. (AE) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	-	0.363	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498
506C/506	2	6	0.03	0.03	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.70	0.47	4	3.40	3.40	1.0	-	0.848	5	0.94	0.94	4	0.00	0.00	1.6	+	0.374	5	0.94	0.94	4	0.00	0.00	1.6	+	0.374
1598C/1598	3	4	0.20	0.20	5	0.00	0.00	1.2	+	0.384	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	1.93	1.93	6	0.83	0.83	1.1	+	0.613	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.71	0.65		1.06	1.06		+			0.24	0.24		0.00	0.00		-			0.24	0.24		0.00	0.00		+	
Fisher's		Power	0.000		Power-50%		0.010	P-value		0.419 y	Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.483
Stouffer's		Power	0.007		Power-50%		0.038	P-value		0.176	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498

(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-3.22. Algal Biomass. Chlorophyta. Prince William Sound. Coarse Textured. June 1990. (Continued.)

		Morphological Group - Fine Filamentous Greens								Acrosiphonia sp. (A)								Total Chaetomorpha/Rhizoclonium (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.37	0.19	4	0.00	0.00	0.9	+	0.103	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.09	0.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.259	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.497	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	3	5	146.79	102.66	4	158.40	107.51	0.7	-	0.940	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.22	0.22	4	0.00	0.00	1.6	+	0.374
1598C/1598	3	4	46.68	44.96	5	0.00	0.00	1.2	+	0.375	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.65	0.65	5	0.00	0.00	1.2	+	0.391
846C/846	3	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	12.92	12.92	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			51.60	40.13		39.60	26.88		+			0.00	0.00		0.00	0.00		o			0.22	0.22		0.00	0.00		+	
Fisher's		Power	0.010		Power-50%		0.023	P-value		0.392	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.310
Stouffer's		Power	0.021		Power-50%		0.037	P-value		0.212	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.211

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

		Chaetomorpha/Rhizoclonium spp. (A) (b)								Chaetomorpha melagonium (A)								Cladophora sp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	2	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.37	0.19	4	0.00	0.00	0.9	+	0.104
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.09	0.05		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.259
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.497
506C/506	3	5	0.22	0.22	4	0.00	0.00	1.6	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	146.57	102.68	4	158.40	107.51	0.7	-	0.939
1598C/1598	3	4	0.65	0.65	5	0.00	0.00	1.2	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	46.03	45.16	5	0.00	0.00	1.2	+	0.383
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	12.92	12.92	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.22	0.22		0.00	0.00		+			0.00	0.00		0.00	0.00		o			51.38	40.19		39.60	26.88		+	
Fisher's		Power	---		Power-50%		---	P-value		0.310	Power	---		Power-50%		---	P-value		0.698	Power	0.008		Power-50%		0.008	P-value		0.396
Stouffer's		Power	---		Power-50%		---	P-value		0.211	Power	---		Power-50%		---	P-value		0.500	Power	0.018		Power-50%		0.052	P-value		0.216

(b) Chaetomorpha melagonium not included.

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

Table C-3.22. Algal Biomass. Chlorophyta. Prince William Sound. Coarse Textured. June 1990. (Continued.)

Site Pair	MVD	Gomontia polyrhiza (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P
505C/506	1	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
845C/846	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.698
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
505C/506	2	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	1.7	-	0.363
1598C/1598	2	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
845C/846	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		·	
Fisher's		Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.477	Power	---		Power-50%		---		P-value	0.477
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.498	Power	---		Power-50%		---		P-value	0.498
505C/506	3	5	0.00	0.00	4	0.00	0.00		- o	1.000	5	0.00	0.00	4	0.05	0.05	1.2	-	0.635	5	0.00	0.00	4	0.05	0.05	1.2	-	0.635
1598C/1598	3	4	0.00	0.00	5	0.00	0.00		- o	1.000	4	0.00	0.00	5	1.48	1.48	1.6	-	0.703	4	0.00	0.00	5	1.48	1.48	1.6	-	0.703
845C/846	3	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.38	0.38		-			0.00	0.00		0.38	0.38		-	
Fisher's		Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.520	Power	---		Power-50%		---		P-value	0.520
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.361	Power	---		Power-50%		---		P-value	0.361

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

Site Pair	MVD	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
505C/506	1	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000									
1598C/1598	1	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000									
845C/846	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000									
1650C/1650	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	
505C/506	2	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00		- o	1.000									
1598C/1598	2	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000									
845C/846	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000									
1650C/1650	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---		P-value	0.477	Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	
Stouffer's		Power	---		Power-50%		---		P-value	0.498	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	
505C/506	3	5	0.00	0.00	4	0.05	0.05	1.2	-	0.635	5	0.00	0.00	4	0.00	0.00		- o	1.000									
1598C/1598	3	4	0.00	0.00	5	1.48	1.48	1.6	-	0.703	4	0.00	0.00	5	0.00	0.00		- o	1.000									
845C/846	3	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000									
1650C/1650	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000									
Habitat Means			0.00	0.00		0.38	0.38		-			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---		P-value	0.520	Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	
Stouffer's		Power	---		Power-50%		---		P-value	0.361	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.23. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta							Morphological Group - Bladed Browns							Fucus cottonii (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	148.00	143.00	4	0.00	0.00	1.7	+	0.348	6	148.00	143.00	4	0.00	0.00	1.7	+	0.348	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	172.94	172.94	5	0.00	0.00	1.4	+	0.374	5	172.94	172.94	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			80.24	78.99		0.00	0.00		+			80.24	78.99		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.001	P-value		0.293	Power	0.000		Power-50%		0.000	P-value		0.293	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.001		Power-50%		0.001	P-value		0.203	Power	0.001		Power-50%		0.001	P-value		0.203	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	1124.99	576.45	4	13.68	13.68	0.9	+	0.175	6	1124.97	576.44	4	13.60	13.60	0.9	+	0.175	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	1.39	1.39	6	1.57	1.57	1.0	-	0.933	6	1.38	1.38	6	1.57	1.57	1.0	-	0.932	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	1530.50	826.61	6	0.00	0.00	0.8	+	0.123	6	1530.50	826.61	6	0.00	0.00	0.8	+	0.123	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			664.22	351.11		3.81	3.81		+			664.21	351.11		3.79	3.79		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.177		Power-50%		0.041	P-value		0.109	Power	0.171		Power-50%		0.053	P-value		0.109	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.360	Power	0.000		Power-50%		0.000	P-value		0.361	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	799.21	279.31	4	414.98	399.93	0.5	+	0.443	5	521.34	117.63	4	370.88	369.18	0.6	+	0.681	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	188.00	104.73	5	109.16	94.11	0.7	-	0.593	4	123.58	75.74	5	109.16	94.11	0.8	-	0.912	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	192.74	178.43	5	260.36	180.21	0.8	-	0.797	5	192.74	178.43	5	260.36	180.21	0.8	-	0.797	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	604.82	294.92	6	0.00	0.00	0.7	+	0.096	6	602.80	294.19	6	0.00	0.00	0.7	+	0.096	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			446.19	214.35		196.12	168.56		+			360.11	166.50		185.10	160.88		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.330		Power-50%		0.289	P-value		0.129	Power	0.272		Power-50%		0.328	P-value		0.212	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.173		Power-50%		0.201	P-value		0.202	Power	0.122		Power-50%		0.213	P-value		0.331	Power	---		Power-50%		---	P-value		0.500

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

		Fucus gardneri (P)							Petalonia fascia (AE)							Total Punctaria (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	148.00	143.00	4	0.00	0.00	1.7	+	0.348	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	172.94	172.94	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			80.24	78.99		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.293	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.001		Power-50%		0.001	P-value		0.203	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	1124.97	576.44	4	13.60	13.60	0.9	+	0.175	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	1.38	1.38	6	1.57	1.57	1.0	-	0.932	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	1530.50	826.61	6	0.00	0.00	0.8	+	0.123	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			664.21	351.11		3.79	3.79		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.171		Power-50%		0.052	P-value		0.109	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.361	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	521.34	117.63	4	370.88	369.18	0.6	+	0.681	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	1.2	-	0.391
1598C/1598	3	4	123.58	75.74	5	109.16	94.11	0.8	+	0.912	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	192.74	178.43	5	260.36	180.21	0.8	-	0.797	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	602.80	294.19	6	0.00	0.00	0.7	+	0.096	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			360.11	166.50		185.10	160.87		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.267		Power-50%		0.309	P-value		0.212	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	0.121		Power-50%		0.209	P-value		0.331	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498

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

Table C-3.23. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. June 1990. (Continued.)

Site Pair	MVD	Punctaria spp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.02	0.02	4	0.00	0.00	1.6	+	0.322	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.001		Power-50%		0.000	P-value		0.277	Power	---		Power-50%		---	P-value		0.295
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.399	Power	---		Power-50%		---	P-value		0.399
506C/506	3	5	0.00	0.00	4	0.00	0.00	1.2	-	0.391	5	3.04	2.40	4	32.93	30.61	1.1	-	0.736	5	0.00	0.00	4	2.30	2.30	1.2	-	0.391
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.38	0.22	5	0.00	0.00	0.7	+	0.183	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.72	0.72	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			1.03	0.83		8.23	7.65		+			0.00	0.00		0.58	0.58		-	
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	0.013		Power-50%		0.085	P-value		0.232 y	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.073	Power	---		Power-50%		---	P-value		0.498

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

Site Pair	MVD	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.02	0.02	4	0.00	0.00	1.6	+	0.319	6	0.00	0.00	4	0.00	0.00	1.1	-	0.177
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.01	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.295	Power	0.000		Power-50%		0.001	P-value		0.450	Power	0.014		Power-50%		0.014	P-value		0.342
Stouffer's		Power	---		Power-50%		---	P-value		0.399	Power	0.000		Power-50%		0.000	P-value		0.498	Power	*0.000*		Power-50%		*0.000*	P-value		*0.497*
506C/506	3	5	0.00	0.00	4	2.30	2.30	1.2	-	0.391	5	3.04	2.40	4	30.63	28.31	1.0	-	0.732	5	274.83	178.63	4	10.77	7.87	1.0	-	0.650
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.38	0.22	5	0.00	0.00	0.7	-	0.183	4	64.04	64.04	5	0.00	0.00	1.2	-	0.391
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.72	0.72	6	0.00	0.00	1.4	+	0.363	6	1.30	1.30	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.58	0.58		-			1.03	0.83		7.66	7.08		+			85.04	60.99		2.69	1.97		+	
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	0.019		Power-50%		0.101	P-value		0.232 y	Power	0.008		Power-50%		0.008	P-value		0.244
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.073	Power	*0.003*		Power-50%		*0.004*	P-value		*0.154*

(a) Genera not separated.

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

Table C-3.23. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. June 1990. (Continued.)

Site Pair	MVD	Ectocarpus sp. (AE) N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	271.58	176.40	4	9.52	7.93	1.0	+	0.626
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	64.04	64.04	5	0.00	0.00	1.2	+	0.391
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.07	0.07	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			83.92	60.13		2.38	1.98		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	0.008		Power-50%		0.008	P-value		0.239
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.005		Power-50%		0.002	P-value		0.154

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

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.08	0.08	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		·			0.00	0.00		0.02	0.02		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	3.26	2.24	4	1.25	1.14	0.9	+	0.486	5	0.00	0.00	4	0.41	0.40	1.2	-	0.384	5	0.00	0.00	4	0.41	0.40	1.2	-	0.384
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	1.2	+	0.391	4	0.00	0.00	5	0.00	0.00	1.2	+	0.391
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	1.24	1.23	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.12	0.87		0.31	0.28		+			0.00	0.00		0.10	0.10		+			0.00	0.00		0.10	0.10		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.341	Power	0.000		Power-50%		---	P-value		0.387 y	Power	0.000		Power-50%		0.000	P-value		0.591
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.411	Power	0.002		Power-50%		---	P-value		0.155	Power	0.000		Power-50%		---	P-value		0.786

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

Table C-3.23. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. June 1990. (Continued.)

			Soranthera ulvoidea (A)																			
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000												
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000												
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000												
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000												
Habitat Means			0.00	0.00		0.00	0.00		o													
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---	Power-50%	---	P-value		Power	---	Power-50%	---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---	Power-50%	---	P-value		Power	---	Power-50%	---	P-value	
506C/506	2	6	0.00	0.00	4	0.08	0.08	1.1	-	0.391												
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000												
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000												
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000												
Habitat Means			0.00	0.00		0.02	0.02		-													
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	---	Power-50%	---	P-value		Power	---	Power-50%	---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---	Power-50%	---	P-value		Power	---	Power-50%	---	P-value	
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000												
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000												
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000												
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363												
Habitat Means			0.00	0.00		0.00	0.00		+													
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---	Power-50%	---	P-value		Power	---	Power-50%	---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.413	Power	---	Power-50%	---	P-value		Power	---	Power-50%	---	P-value	

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

Table C-3.24. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000
1598C/1598	1	5	0.08	0.08	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.204	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	2.37	2.31	4	84.85	68.58	0.9	-	0.167	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
1598C/1598	2	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
846C/846	2	6	0.00	0.00	6	0.15	0.15	1.4	-	0.669	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.59	0.58		21.25	17.18		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.023		Power-50%		0.000	P-value		0.270	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.450	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498
506C/506	3	5	29.10	17.81	4	191.90	189.27	1.1	-	0.957	5	19.56	12.34	4	4.43	3.45	0.8	+	0.326	5	19.36	12.26	4	4.43	3.44	0.8	+	0.329
1598C/1598	3	4	487.78	353.76	5	0.00	0.00	0.9	+	0.262	4	0.00	0.00	5	0.00	0.00		- o	1.000	4	0.00	0.00	5	0.00	0.00		- o	1.000
846C/846	3	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
1650C/1650	3	6	53.81	34.08	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			142.67	101.41		47.97	47.32		+			4.89	3.08		1.11	0.86		+			4.84	3.07		1.11	0.86		+	
Fisher's		Power	0.015		Power-50%		0.014	P-value		0.169	Power	0.000		Power-50%		0.000	P-value		0.454	Power	0.000		Power-50%		0.000	P-value		0.456
Stouffer's		Power	---		Power-50%		0.054	P-value		0.085	Power	0.000		Power-50%		0.000	P-value		0.498	Power	0.000		Power-50%		0.000	P-value		0.498

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

		Total Palmaria (A)								Palmaria spp. (A)								Palmaria callophylloides (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.20	0.20	4	0.00	0.00	1.6	+	0.776	5	0.00	0.00	4	0.00	0.00		- o	1.000	5	0.20	0.20	4	0.00	0.00	1.6	+	0.776
1598C/1598	3	4	0.00	0.00	5	0.00	0.00		- o	1.000	4	0.00	0.00	5	0.00	0.00		- o	1.000	4	0.00	0.00	5	0.00	0.00		- o	1.000
846C/846	3	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.05	0.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.05	0.05		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.641	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.641
Stouffer's		Power	---		Power-50%		---	P-value		0.499	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.499

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

Table C-3.24. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. June 1990. (Continued.)

Site Pair	MVD	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	1.2	-	0.391
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		--	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498

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

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.08	0.08	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.204	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	2.13	2.13	4	84.85	68.58	0.9	-	0.064	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.15	0.15	1.4	-	0.669	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.53	0.53		21.25	17.18		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.024		Power-50%		---	P-value		0.159	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		---	P-value		0.450	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	7.48	5.41	4	186.23	184.66	1.2	-	0.714	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	1.84	1.84	4	61.88	61.88	1.2	-	0.746
1598C/1598	3	4	487.78	353.76	5	0.00	0.00	0.9	+	0.262	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	48.20	31.11	6	0.00	0.00	0.9	+	0.182	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.78	1.78	6	0.00	0.00	1.4	+	0.363
Habitat Means			135.86	97.57		46.56	46.17		+			0.00	0.00		0.00	0.00		o			0.91	0.91		15.47	15.47		+	
Fisher's		Power	0.009		Power-50%		0.018	P-value		0.194	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.524 y
Stouffer's		Power	---		Power-50%		0.045	P-value		0.086	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.413

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

Table C-3.24. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. June 1990. (Continued.)

Site Pair	MVD	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.08	0.08	5	0.00	0.00	1.4	+	0.374
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.02	0.02		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.483
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.204
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	12.80	11.26	1.0	-	0.338	6	2.13	2.13	4	66.20	66.20	1.1	-	0.661
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.15	0.15	1.4	-	0.669	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		3.24	2.85		-			0.53	0.53		16.55	16.55		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.004		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value		0.605
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.451	Power	---		Power-50%		---	P-value		0.499
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.08	0.08	1.2	-	0.391	5	5.64	5.54	4	112.23	110.76	1.2	-	0.622
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	487.78	353.76	5	0.00	0.00	0.9	+	0.262
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.07	0.07	6	0.00	0.00	1.4	+	0.363	6	46.35	30.30	6	0.00	0.00	0.9	+	0.187
Habitat Means			0.00	0.00		0.00	0.00		o			0.02	0.02		0.02	0.02		+			134.94	97.40		28.06	27.69		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.578 y	Power	0.006		Power-50%		0.006	P-value		0.205
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.414	Power	---		Power-50%		---	P-value		0.087

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

Site Pair	MVD	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.08	0.08	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.204	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	2.13	2.13	4	66.20	66.20	1.1	-	0.661	6	0.00	0.00	4	5.85	5.85	1.1	-	0.391	6	0.24	0.18	4	0.00	0.00	1.3	-	0.245
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.53	0.53		16.55	16.55		-			0.00	0.00		1.46	1.46		-			0.06	0.05		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.605	Power	---		Power-50%		---	P-value		0.492	Power	0.000		Power-50%		0.000	P-value		0.400
Stouffer's		Power	---		Power-50%		---	P-value		0.499	Power	---		Power-50%		---	P-value		0.498	Power	0.000		Power-50%		0.000	P-value		0.498
506C/506	3	5	5.64	5.54	4	112.23	110.76	1.2	-	0.622	5	0.00	0.00	4	12.05	12.05	1.2	-	0.391	5	2.06	1.75	4	1.17	1.17	1.0	+	0.701
1598C/1598	3	4	487.78	353.76	5	0.00	0.00	0.9	+	0.262	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	46.35	30.30	6	0.00	0.00	0.9	+	0.187	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.00	3.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			134.94	97.40		28.06	27.69		+			0.00	0.00		3.01	3.01		-			1.27	1.19		0.29	0.29		+	
Fisher's		Power	0.005		Power-50%		0.022	P-value		0.205	Power	---		Power-50%		---	P-value		0.492	Power	0.000		Power-50%		0.000	P-value		0.406
Stouffer's		Power			Power-50%		0.046	P-value		0.087	Power	---		Power-50%		---	P-value		0.498	Power	0.000		Power-50%		0.000	P-value		0.412

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

Table C-3.24. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. June 1990. (Continued.)

Site Pair	MVD	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.24	0.18	4	0.00	0.00	1.3	+	0.245	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.06	0.05		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.400	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.498	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	2.06	1.75	4	1.17	1.17	1.0	+	0.701	5	0.00	0.00	4	0.08	0.08	1.2	-	0.391
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.00	3.00	6	0.00	0.00	1.4	+	0.363	6	2.60	2.60	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			1.27	1.19		0.29	0.29		+			0.65	0.65		0.02	0.02		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.001		Power-50%		0.002	P-value		0.406	Power	---		Power-50%		---	P-value		0.578
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.412	Power	---		Power-50%		---	P-value		0.414

(a) Genera not separated.

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

Site Pair	MVD	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.08	0.08	1.2	-	0.391	5	0.00	0.00	4	0.08	0.08	1.2	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1650C/1650	3	6	2.60	2.60	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.60	2.60	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.65	0.65		0.02	0.02		+			0.00	0.00		0.02	0.02		-			0.65	0.65		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.578	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.414	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.413

Table C-3.25. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	1.17	0.65	4	1.75	1.11	0.6	-	0.640	6	246.44	243.13	4	109.75	70.54	1.2	+	0.670	6	244.65	243.47	4	106.30	70.23	1.2	+	0.667
1598C/1598	1	5	1.40	0.51	5	0.00	0.00	0.5	+	0.052	5	54.86	45.86	5	0.00	0.00	1.2	+	0.298	5	53.94	45.62	5	0.00	0.00	1.2	+	0.303
846C/846	1	6	0.17	0.17	6	0.33	0.21	0.8	-	0.549	6	2.95	2.95	6	5.53	4.61	0.9	-	0.647	6	2.95	2.95	6	5.53	4.61	0.9	-	0.647
1650C/1650	1	6	0.17	0.17	6	0.17	0.17	1.0	o	1.000	6	150.22	150.22	6	4.75	4.75	1.4	+	0.869	6	150.22	150.22	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.73	0.37		0.56	0.37		-			113.62	110.54		30.01	19.97		+			112.94	110.56		27.96	18.71		+	
Fisher's		Power	0.032			Power-50%	0.397	P-value		0.613xy	Power	0.021			Power-50%	0.044	P-value		0.391	Power	0.019			Power-50%	0.019	P-value		0.253
Stouffer's		Power	0.000			Power-50%	0.374	P-value		0.950	Power	0.128			Power-50%	0.075	P-value		0.188	Power	0.143			Power-50%	0.063	P-value		0.146
506C/506	2	6	1.00	0.45	4	1.50	1.19	0.6	-	0.660	6	615.02	427.46	4	0.85	0.82	1.2	+	0.320	6	615.00	427.45	4	0.65	0.62	1.2	+	0.312
1598C/1598	2	5	1.20	0.58	5	0.20	0.20	0.6	+	0.143	5	272.46	230.89	5	0.70	0.70	1.2	+	0.168	5	272.38	230.82	5	0.70	0.70	1.2	+	0.168
846C/846	2	6	0.17	0.17	6	0.50	0.22	0.6	-	0.260	6	8.92	8.92	6	277.28	268.32	1.3	-	0.290	6	8.92	8.92	6	277.28	268.32	1.3	-	0.290
1650C/1650	2	6	0.33	0.21	6	0.00	0.00	0.9	+	0.175	6	840.42	834.61	6	0.00	0.00	1.4	+	0.360	6	840.42	834.61	6	0.00	0.00	1.4	+	0.360
Habitat Means			0.68	0.35		0.55	0.40		+			434.20	375.47		69.71	67.46		+			434.18	375.45		69.66	67.41		+	
Fisher's		Power	0.171			Power-50%	0.612	P-value		0.189	Power	0.052			Power-50%	0.067	P-value		0.136	Power	0.058			Power-50%	0.058	P-value		0.134
Stouffer's		Power	---			Power-50%	0.477	P-value		0.084	Power	0.060			Power-50%	0.094	P-value		0.112	Power	0.061			Power-50%	0.080	P-value		0.112
506C/506	3	5	5.00	1.14	4	5.00	3.32	0.4	o	1.000	5	807.43	513.10	4	420.03	396.42	0.8	+	0.586	5	520.00	256.01	4	330.39	322.93	0.7	-	0.655
1598C/1598	3	5	2.40	0.68	5	0.40	0.24	0.4	+	0.024	5	900.22	360.19	5	8.94	8.40	0.6	-	0.012	5	890.18	357.35	5	8.94	8.40	0.6	-	0.012
846C/846	3	5	0.20	0.20	6	0.67	0.42	0.8	-	0.375	5	6.72	6.72	6	10.65	10.47	1.1	-	0.770	5	6.72	6.72	6	0.15	0.15	1.2	-	0.726
1650C/1650	3	6	2.83	1.33	6	0.00	0.00	0.7	+	0.086	6	175.51	142.84	6	0.00	0.00	1.2	-	0.274	6	171.35	142.98	6	0.00	0.00	1.2	-	0.285
Habitat Means			2.61	0.84		1.52	1.00		+			472.47	255.71		109.91	103.82		+			397.06	190.77		84.87	82.87		-	
Fisher's		Power	---			Power-50%	---	P-value		0.031	Power	---			Power-50%	---	P-value		0.024	Power	---			Power-50%	---	P-value		0.018
Stouffer's		Power	---			Power-50%	0.951	P-value		0.012	Power	---			Power-50%	---	P-value		0.006	Power	---			Power-50%	---	P-value		0.003

(a) 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.

		Annuals (A)								Ephemerals (AE)																
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	1.79	1.78	4	3.45	3.45	0.9	-	0.649	6	1.79	1.78	4	0.00	0.00	1.7	-	0.363									
1598C/1598	1	5	0.92	0.58	5	0.00	0.00	0.9	+	0.186	5	0.92	0.58	5	0.00	0.00	0.9	+	0.186									
846C/846	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000									
1650C/1650	1	6	0.00	0.00	6	4.75	4.75	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000									
Habitat Means			0.68	0.59		2.05	2.05		-			0.68	0.59		0.00	0.00		+										
Fisher's		Power	0.000			Power-50%	0.000	P-value		0.510	Power	0.000			Power-50%	0.000	P-value		0.205	Power	---			Power-50%	---	P-value		
Stouffer's		Power	0.000			Power-50%	0.002	P-value		0.843	Power	0.003			Power-50%	0.001	P-value		0.109	Power	---			Power-50%	---	P-value		
506C/506	2	6	0.02	0.02	4	0.20	0.20	1.0	-	0.651	6	0.02	0.02	4	0.00	0.00	1.7	+	0.363									
1598C/1598	2	5	0.08	0.08	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00		-	o 1.000									
846C/846	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000									
1650C/1650	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000									
Habitat Means			0.02	0.02		0.05	0.05		+			0.00	0.00		0.00	0.00		+										
Fisher's		Power	---			Power-50%	---	P-value		0.546 y	Power	---			Power-50%	---	P-value		0.477	Power	---			Power-50%	---	P-value		
Stouffer's		Power	---			Power-50%	---	P-value		0.205	Power	---			Power-50%	---	P-value		0.498	Power	---			Power-50%	---	P-value		
506C/506	3	5	287.43	271.34	4	89.64	74.09	1.2	+	0.549	5	286.18	270.20	4	74.71	74.71	1.2	+	0.521									
1598C/1598	3	5	10.04	9.62	5	0.00	0.00	1.4	+	0.356	5	2.48	2.36	5	0.00	0.00	1.3	+	0.352									
846C/846	3	5	0.00	0.00	6	10.50	10.50	1.6	-	0.363	5	0.00	0.00	6	10.50	10.50	1.6	-	0.363									
1650C/1650	3	6	4.16	3.14	6	0.00	0.00	1.1	+	0.243	6	0.14	0.13	6	0.00	0.00	1.4	+	0.350									
Habitat Means			75.41	71.03		25.04	21.15		+			72.20	68.17		21.30	21.30		+										
Fisher's		Power	0.016			Power-50%	0.071	P-value		0.222	Power	0.067			Power-50%	0.102	P-value		0.262	Power	---			Power-50%	---	P-value		
Stouffer's		Power	0.014			Power-50%	0.060	P-value		0.186	Power	0.030			Power-50%	0.029	P-value		0.199	Power	---			Power-50%	---	P-value		

Table C-3.26. Algal Biomass. Chlorophyta. Prince William Sound. Coarse Textured. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.01	0.01	4	3.45	3.45	1.1	-	0.481	6	0.00	0.00	4	0.00	0.00		-	o 1.000	6	0.00	0.00	4	0.00	0.00		-	o 1.000
1598C/1598	1	5	0.92	0.58	5	0.00	0.00	0.9	+	0.186	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.23	0.15		0.86	0.86		+			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o
Fisher's		Power	0.028		Power-50%		0.042	P-value		0.427 y	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.198		Power-50%		0.140	P-value		0.110	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.02	0.02	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00		-	o 1.000	6	0.00	0.00	4	0.00	0.00		-	o 1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		*0.498*	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	106.21	90.37	4	73.58	73.58	0.9	+	0.796	5	0.00	0.00	4	0.30	0.30	1.2	-	0.391	5	0.00	0.00	4	0.00	0.00		-	o 1.000
1598C/1598	3	5	2.48	2.36	5	0.00	0.00	1.3	+	0.352	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000
846C/846	3	5	0.00	0.00	6	10.50	10.50	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000
1650C/1650	3	6	0.14	0.13	6	0.00	0.00	1.4	+	0.357	6	0.03	0.03	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			27.21	23.21		21.02	21.02		+			0.01	0.01		0.08	0.08			+		0.00	0.00		0.00	0.00			o
Fisher's		Power	0.042		Power-50%		0.079	P-value		0.328	Power	---		Power-50%		---	P-value		0.578 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.019		Power-50%		0.035	P-value		0.201	Power	---		Power-50%		---	P-value		0.414	Power	---		Power-50%		---	P-value		0.500

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00		-	o 1.000	6	0.00	0.00	4	0.00	0.00		-	o 1.000	6	0.00	0.00	4	0.00	0.00		-	o 1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			*0.00*	*0.00*		*0.00*	*0.00*		o			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00		-	o 1.000	6	0.00	0.00	4	0.00	0.00		-	o 1.000	6	0.00	0.00	4	0.00	0.00		-	o 1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.00	0.00		-	o 1.000	5	*0.00*	*0.00*	4	*0.30*	*0.30*	1.2	-	0.391	5	*0.00*	*0.00*	4	*0.30*	*0.30*	1.2	-	0.391
1598C/1598	3	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o 1.000
846C/846	3	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000
1650C/1650	3	6	0.03	0.03	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.00	0.00		0.08	0.08			-		0.00	0.00		0.08	0.08			-
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.413	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498

(b) Genera not separated.

Table C-3.26. Algal Biomass. Chlorophyta. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens									Acrosiphonia sp. (A)									Total Chaetomorpha/Rhizoclonium (A)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.01	0.01	4	3.45	3.45	1.1	-	0.481	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	3.45	3.45	1.1	-	0.391
1598C/1598	1	5	0.92	0.58	5	0.00	0.00	0.9	+	0.186	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.23	0.15		0.86	0.86		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.86	0.86		-	
Fisher's		Power	0.021		Power-50%		0.046	P-value		0.427 y	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	0.190		Power-50%		0.138	P-value		0.110	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	2	6	0.02	0.02	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	12.17	7.05	4	73.28	73.28	1.1	+	0.122	5	0.00	0.00	4	0.00	0.00		- o	1.000	5	0.00	0.00	4	0.03	0.03	1.1	-	0.676
1598C/1598	3	5	0.04	0.04	5	0.00	0.00	1.3	+	0.348	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
846C/846	3	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			3.05	1.77		18.32	18.32		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.01	0.01		-	
Fisher's		Power	0.024		Power-50%		0.038	P-value		0.394 y	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.610
Stouffer's		Power	0.022		Power-50%		0.023	P-value		0.139	Power	---		Power-50%		---	P-value		0.413	Power	---		Power-50%		---	P-value		0.499

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

Site Pair	MVD	Chaetomorpha/Rhizoclonium spp. (A) (b)									Chaetomorpha melagonium (A)									Cladophora sp. (AE)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	3.33	3.33	1.1	-	0.391	6	0.00	0.00	4	0.13	0.13	1.1	-	0.391	6	0.01	0.01	4	0.00	0.00	1.7	+	0.363
1598C/1598	1	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.92	0.58	5	0.00	0.00	0.9	-	0.186
846C/846	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.83	0.83		-			0.00	0.00		0.03	0.03		-			0.23	0.15		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.492	Power	0.051		Power-50%		0.051	P-value		0.206
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498	Power	0.214		Power-50%		0.158	P-value		0.109
506C/506	2	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.02	0.02	4	0.00	0.00	1.7	-	0.363
1598C/1598	2	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	3	5	0.00	0.00	4	0.00	0.00	1.6	+	0.374	5	0.00	0.00	4	0.03	0.03	1.2	-	0.391	5	12.17	7.05	4	73.26	73.26	1.1	-	0.233
1598C/1598	3	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.04	0.04	5	0.00	0.00	1.3	-	0.348
846C/846	3	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.01	0.01		-			3.05	1.77		18.31	18.31		-	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.492	Power	0.000		Power-50%		0.000	P-value		0.488
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498	Power	0.000		Power-50%		0.022	P-value		0.807

(b) Chaetomorpha melagonium not included.

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

Table C-3.26. Algal Biomass. Chlorophyta. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Gomontia polyrhiza (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	94.04	90.97	4	0.00	0.00	1.5	+	0.360	5	94.04	90.97	4	0.00	0.00	1.5	-	0.360
1598C/1598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	2.44	2.37	5	0.00	0.00	1.4	+	0.361	5	2.44	2.37	5	0.00	0.00	1.4	+	0.361
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	10.50	10.50	1.6	-	0.363	5	0.00	0.00	6	10.50	10.50	1.6	-	0.363
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.10	0.10	6	0.00	0.00	1.4	-	0.363	6	0.10	0.10	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			24.14	23.36		2.63	2.63		-			24.14	23.36		2.63	2.63		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.008		Power-50%		0.006	P-value		0.221	Power	0.006		Power-50%		0.006	P-value		0.221
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.012		Power-50%		0.018	P-value		0.205	Power	0.010		Power-50%		0.021	P-value		0.205

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

Site Pair	MVD	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	94.04	90.97	4	0.00	0.00	1.5	-	0.360									
1598C/1598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	2.44	2.37	5	0.00	0.00	1.4	-	0.361									
846C/846	3	5	0.00	0.00	6	10.50	10.50	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
1650C/1650	3	6	0.10	0.10	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.03	0.03		2.63	2.63		-			24.12	23.33		0.00	0.00		-										
Fisher's		Power	---		Power-50%		---	P-value		0.582	Power	0.001		Power-50%		0.002	P-value		0.292	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.488	Power	0.006		Power-50%		0.008	P-value		0.196	Power	---		Power-50%		---	P-value		

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.27. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Total Phaeophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group - Bladed Browns N	C	SE	N	O	SE	CV	D	P	Fucus cottonii (P) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	246.43	243.13	4	104.00	70.11	1.2	+	0.657	6	244.65	243.47	4	104.00	70.11	1.2	+	0.661	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	53.34	45.78	5	0.00	0.00	1.2	+	0.309	5	53.34	45.78	5	0.00	0.00	1.2	+	0.309	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	2.95	2.95	6	5.53	4.61	0.9	-	0.647	6	2.95	2.95	6	5.53	4.61	0.9	-	0.647	6	2.95	2.95	6	0.00	0.00	1.4	+	0.363
1650C/1650	1	6	150.22	150.22	6	4.75	4.75	1.4	+	0.869	6	150.22	150.22	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			113.23	110.52		28.57	19.87		+			112.79	110.61		27.38	18.68		-			0.74	0.74		0.00	0.00		+	
Fisher's		Power	0.018		Power-50%		0.043	P-value		0.394	Power	0.016		Power-50%		0.040	P-value		0.255	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.128		Power-50%		0.060	P-value		0.194	Power	0.143		Power-50%		0.064	P-value		0.149	Power	---		Power-50%		---	P-value		0.401
506C/506	2	6	615.00	427.45	4	0.70	0.67	1.2	+	0.314	6	615.00	427.45	4	0.58	0.54	1.2	-	0.308	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	100.68	99.03	5	0.70	0.70	1.4	+	0.207	5	100.60	98.95	5	0.70	0.70	1.4	+	0.207	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	8.92	8.92	6	277.28	268.32	1.3	-	0.290	6	8.92	8.92	6	277.28	268.32	1.3	-	0.290	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	840.42	834.61	6	0.00	0.00	1.4	+	0.360	6	840.42	834.61	6	0.00	0.00	1.4	+	0.360	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			391.25	342.50		69.67	67.42		+			391.23	342.48		69.64	67.39		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.049		Power-50%		0.048	P-value		0.152	Power	0.052		Power-50%		0.064	P-value		0.150	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.050		Power-50%		0.073	P-value		0.134	Power	0.054		Power-50%		0.078	P-value		0.134	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	692.52	417.07	4	282.63	275.64	0.8	+	0.466	5	512.24	249.36	4	281.30	274.34	0.7	+	0.554	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	5	897.66	359.53	5	8.94	8.40	0.6	-	0.012	5	890.10	357.36	5	8.94	8.40	0.6	+	0.012	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	6.72	6.72	6	0.15	0.15	1.2	+	0.931	5	6.72	6.72	6	0.15	0.15	1.2	+	0.726	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	26.79	25.97	6	0.00	0.00	1.4	+	0.350	6	24.50	24.50	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			405.92	202.32		72.93	71.05		+			358.39	159.48		72.60	70.72		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.020	Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		0.229	P-value		0.005	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Fucus gardneri (P) N	C	SE	N	O	SE	CV	D	P	Petalonia fascia (AE) N	C	SE	N	O	SE	CV	D	P	Total Punctaria (AE) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	244.65	243.47	4	104.00	70.11	1.2	+	0.661	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	53.34	45.78	5	0.00	0.00	1.2	+	0.309	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	5.53	4.61	1.2	-	0.283	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	150.22	150.22	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			112.05	109.87		27.38	18.68		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.003		Power-50%		0.013	P-value		0.289	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.045		Power-50%		0.025	P-value		0.191	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	615.00	427.45	4	0.58	0.54	1.2	+	0.308	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	100.60	98.95	5	0.70	0.70	1.4	+	0.207	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	8.92	8.92	6	277.28	268.32	1.3	-	0.290	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	840.42	834.61	6	0.00	0.00	1.4	+	0.360	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			391.23	342.48		69.64	67.39		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.054		Power-50%		0.043	P-value		0.150	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.055		Power-50%		0.069	P-value		0.134	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	512.24	249.36	4	281.30	274.34	0.7	+	0.554	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	5	890.10	357.36	5	8.94	8.40	0.6	+	0.012	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	6.72	6.72	6	0.15	0.15	1.2	+	0.726	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	24.50	24.50	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			358.39	159.48		72.60	70.72		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		0.233	P-value		0.004	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

Table C-3.27. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Punctaria spp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.31	0.23	4	0.18	0.15	0.8	+	0.680	5	0.06	0.06	4	0.00	0.00	1.5	-	0.537
1598C/1598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	7.56	7.26	5	0.00	0.00	1.4	+	0.357	5	7.56	7.26	5	0.00	0.00	1.4	-	0.357
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.60	1.60	6	0.00	0.00	1.4	+	0.363	6	1.60	1.60	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			2.37	2.27		0.05	0.04		+			2.31	2.23		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.011		Power-50%		0.011	P-value		0.308	Power	0.008		Power-50%		0.008	P-value		0.209
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.015		Power-50%		0.022	P-value		0.204	Power	0.031		Power-50%		0.024	P-value		0.140

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

Site Pair	MVD	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.78	1.78	4	0.00	0.00	1.7	+	0.363
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.44	0.44		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	2	6	0.00	0.00	4	0.00	0.00	1.7	-	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.06	0.06	4	0.00	0.00	1.5	+	0.537	5	0.24	0.24	4	0.18	0.15	1.0	+	0.831	5	179.98	179.98	4	1.15	1.15	1.6	+	0.908
1598C/1598	3	5	7.56	7.26	5	0.00	0.00	1.4	+	0.357	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363
1650C/1650	3	6	1.60	1.60	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175
Habitat Means			2.31	2.23		0.00	0.00		+			0.06	0.06		0.05	0.04		-			44.99	44.99		0.29	0.29		+	
Fisher's		Power	0.009		Power-50%		0.011	P-value		0.209	Power	0.003		Power-50%		0.000	P-value		0.509 y	Power	0.030		Power-50%		0.030	P-value		0.410
Stouffer's		Power	0.026		Power-50%		0.021	P-value		0.140	Power	0.000		Power-50%		0.000	P-value		0.401	Power	0.020		Power-50%		0.000	P-value		0.469

(a) Genera not separated.

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

Table C-3.27. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Ectocarpus sp. (AE) N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.94	0.94	4	0.00	0.00	1.7	+	0.363
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.23	0.23		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	2.73	2.73	4	0.57	0.57	1.3	+	0.514
1598C/1598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.68	0.68		0.14	0.14		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.561 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.402

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

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.84	0.84	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	4.75	4.75	1.4	-	0.363	6	0.00	0.00	6	4.75	4.75	1.4	-	0.363
Habitat Means			0.21	0.21		0.00	0.00		+			0.00	0.00		1.19	1.19		-			0.00	0.00		1.19	1.19		-	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.413	Power	---		Power-50%		---	P-value		0.413
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.13	0.13	1.1	-	0.391	6	0.00	0.00	4	0.08	0.08	1.1	-	0.391
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.08	0.08	5	0.00	0.00	1.4	+	0.374	5	0.08	0.08	5	0.00	0.00	1.4	+	0.374
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.02	0.02		0.03	0.03		,			0.02	0.02		0.02	0.02		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.585 y	Power	---		Power-50%		---	P-value		0.585
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.205	Power	---		Power-50%		---	P-value		0.205
506C/506	3	5	177.24	177.24	4	0.57	0.57	1.6	+	0.876	5	0.00	0.00	4	0.00	0.00	1.2	-	0.391	5	0.00	0.00	4	0.00	0.00	1.2	-	0.391
1598C/1598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.69	0.55	6	0.00	0.00	1.1	+	0.271	6	0.69	0.55	6	0.00	0.00	1.1	+	0.272
Habitat Means			44.31	44.31		0.14	0.14		+			0.17	0.14		0.00	0.00		+			0.17	0.14		0.00	0.00		,	
Fisher's		Power	0.051		Power-50%		0.048	P-value		0.318	Power	0.000		Power-50%		0.001	P-value		0.515	Power	0.000		Power-50%		0.000	P-value		0.515
Stouffer's		Power	0.048		Power-50%		0.000	P-value		0.371	Power	0.000		Power-50%		0.000	P-value		0.396	Power	0.000		Power-50%		0.000	P-value		0.397

Table C-3.27. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00		-	o 1.000																		
1598C/1598	1	5	0.00	0.00	5	0.00	0.00		-	o 1.000																		
846C/846	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000																		
1650C/1650	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000																		
Habitat Means			0.00	0.00		0.00	0.00			o																		
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	2	6	0.00	0.00	4	0.05	0.05	1.1	-	0.391																		
1598C/1598	2	5	0.00	0.00	5	0.00	0.00		-	o 1.000																		
846C/846	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000																		
1650C/1650	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000																		
Habitat Means			0.00	0.00		0.01	0.01		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
506C/506	3	5	0.00	0.00	4	0.00	0.00		-	o 1.000																		
1598C/1598	3	5	0.00	0.00	5	0.00	0.00		-	o 1.000																		
846C/846	3	5	0.00	0.00	6	0.00	0.00		-	o 1.000																		
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363																		
Habitat Means			0.00	0.00		0.00	0.00		+																			
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.413	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.28. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	2.30	2.30	1.1	-	0.420	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.60	0.60	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.15	0.15		0.58	0.58		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.581 y	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.205	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.15	0.15	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	171.78	133.58	5	0.00	0.00	1.1	+	0.268	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			42.95	33.40		0.04	0.04		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.003	P-value		0.512	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.051	P-value		0.152	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	8.70	8.40	4	63.81	48.39	0.8	-	0.748	5	3.70	3.70	4	0.70	0.52	1.3	-	0.556	5	3.70	3.70	4	0.45	0.29	1.4	+	0.577
1598C/1598	3	5	0.08	0.08	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	148.59	145.51	6	0.00	0.00	1.4	+	0.354	6	0.17	0.17	6	0.00	0.00	1.4	+	0.358	6	0.17	0.17	6	0.00	0.00	1.4	+	0.358
Habitat Means			39.34	38.50		15.95	12.10		+			0.97	0.97		0.18	0.13		+			0.97	0.97		0.11	0.07		+	
Fisher's		Power	0.003		Power-50%		0.005	P-value		0.331	Power	0.000		Power-50%		0.000	P-value		0.362	Power	0.000		Power-50%		0.000	P-value		0.368
Stouffer's		Power	0.022		Power-50%		0.003	P-value		0.147	Power	0.000		Power-50%		0.000	P-value		0.411	Power	0.000		Power-50%		0.000	P-value		0.411

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

		Total Palmaria (A)								Palmaria spp. (A)								Palmaria callophylloides (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.25	0.25	1.2	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.25	0.25	1.2	-	0.391
1598C/1598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.06	0.06		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.06	0.06		-	
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498

Table C-3.28. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Plycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	Z	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	Z	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	Z	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	Z	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		we			Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	2.30	2.30	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.60	0.60	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.15	0.15		0.58	0.58		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.585 y	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.205	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.15	0.15	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.08	0.08	1.1	-	0.391
1598C/1598	2	5	171.78	133.58	5	0.00	0.00	1.1	+	0.268	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			42.95	33.40		0.04	0.04		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.02	0.02		-	
Fisher's		Power	0.000		Power-50%		0.002	P-value		0.512	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	0.000		Power-50%		0.052	P-value		0.152	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	3	5	4.06	3.79	4	48.64	48.34	1.1	-	0.876	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	5	0.08	0.08	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	146.68	145.88	6	0.00	0.00	1.4	+	0.361	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			37.71	37.44		12.16	12.08		,			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.005	P-value		0.316	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.017		Power-50%		0.004	P-value		0.147	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

Table C-3.28. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	2.30	2.30	1.1	-	0.391
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.60	0.60	5	0.00	0.00	1.4	+	0.374
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.15	0.15		0.58	0.58		+	
Fisher's		Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.585 y
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.205
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.08	0.08	1.1	-	0.391
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	171.78	133.58	5	0.00	0.00	1.1	+	0.268
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			42.95	33.40		0.02	0.02		+	
Fisher's		Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698	Power	0.000		Power-50%	0.000	P-value			0.512
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	0.000		Power-50%	0.043	P-value			0.152
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	4.06	3.79	4	48.64	48.34	1.1	-	0.876
1598C/1598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.08	0.08	5	0.00	0.00	1.4	-	0.374
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	146.68	145.88	6	0.00	0.00	1.4	+	0.361
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			37.71	37.44		12.16	12.08		+	
Fisher's		Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698	Power	0.001		Power-50%	0.001	P-value			0.316
																				Power	0.016		Power-50%	0.003	P-value			0.147

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

Site Pair	MVD	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	2.30	2.30	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.0	-	0.779
1598C/1598	1	5	0.60	0.60	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.15	0.15		0.58	0.58		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%	---	P-value			0.585 y	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.642
Stouffer's		Power	---		Power-50%	---	P-value			0.205	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.499
506C/506	2	6	0.00	0.00	4	0.08	0.08	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	171.78	133.58	5	0.00	0.00	1.1	+	0.268	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			42.95	33.40		0.02	0.02		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%	0.003	P-value			0.512	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698
Stouffer's		Power	0.000		Power-50%	0.049	P-value			0.152	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
506C/506	3	5	4.06	3.79	4	48.64	48.34	1.1	-	0.876	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.94	0.92	4	8.85	8.10	1.0	-	0.595
1598C/1598	3	5	0.08	0.08	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	146.68	145.88	6	0.00	0.00	1.4	+	0.361	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.73	1.47	6	0.00	0.00	1.2	+	0.292
Habitat Means			37.71	37.44		12.16	12.08		+			0.00	0.00		0.00	0.00		o			0.67	0.60		2.21	2.03		+	
Fisher's		Power	0.001		Power-50%	0.004	P-value			0.316	Power	---		Power-50%	---	P-value			0.698	Power	0.000		Power-50%	0.000	P-value			0.502 y
																				Power	0.000		Power-50%	0.000	P-value			0.400

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

Table C-3.28. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Audouinella purpurea (AE)									Polysiphonia/Pterosiphonia (A) (a)									Morphological Group - Saccate Reds								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		·			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.94	0.92	4	8.85	8.10	1.0	-	0.595	5	0.00	0.00	4	5.63	3.83	0.8	-	0.238
1598C/1598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.73	1.47	6	0.00	0.00	1.2	-	0.292	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.67	0.60		2.21	2.03		+			0.00	0.00		1.41	0.96		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.001		Power-50%		0.000	P-value		0.502 y	Power	0.006		Power-50%		0.006	P-value		0.394
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.000	P-value		0.400	Power	0.001		Power-50%		---	P-value		0.498

(a) Genera not separated.

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

Site Pair	MVD	Total Halosaccion (A)									Halosaccion spp. (A)									Halosaccion glandiforme (A)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	5	0.00	0.00	4	5.63	3.83	0.8	-	0.238	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	5.63	3.83	0.8	-	0.238
1598C/1598	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.41	0.96		-			0.00	0.00		0.00	0.00		o			0.00	0.00		1.41	0.96		-	
Fisher's		Power	0.005		Power-50%		---	P-value		0.394	Power	---		Power-50%		---	P-value		0.698	Power	0.008		Power-50%		0.008	P-value		0.394
Stouffer's		Power	0.000		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		---	P-value		0.498

Table C-3.29. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	1.67	1.28	4	0.75	0.75	1.0	+	0.606	6	233.96	233.24	4	3.08	3.08	1.7	+	0.492	6	233.70	233.28	4	2.55	2.55	1.7	+	0.733
1598C/1598	1	5	0.80	0.37	5	0.60	0.60	0.7	+	0.785	5	242.58	228.47	5	3.62	3.62	1.3	+	0.253	5	242.58	228.47	5	3.62	3.62	1.3	+	0.253
846C/846	1	4	0.75	0.48	6	1.00	0.45	0.5	-	0.721	4	33.43	27.00	6	110.68	90.59	1.1	-	0.521	4	33.38	27.01	6	110.65	90.60	1.1	-	0.521
1650C/1650	1	6	0.83	0.40	6	1.50	0.67	0.5	-	0.414	6	32.05	31.31	6	10.34	4.49	1.1	+	0.546	6	31.43	31.43	6	9.90	4.46	1.1	+	0.150
Habitat Means			1.01	0.63		0.96	0.62		-			135.51	130.01		31.93	25.45		+			135.27	130.05		31.68	25.31		+	
Fisher's		Power	0.053			Power-50%	0.607	P-value		0.546 y	Power	0.044			Power-50%	0.122	P-value		0.255	Power	0.032			Power-50%	0.032	P-value		0.154
Stouffer's		Power	0.042			Power-50%	0.462	P-value		0.484	Power	0.095			Power-50%	0.094	P-value		0.150	Power	0.088			Power-50%	0.063	P-value		0.108
506C/506	2	6	0.67	0.21	4	5.75	1.44	0.3	-	0.037	6	548.62	542.73	4	130.76	62.10	1.4	+	0.255	6	548.05	542.84	4	95.68	55.32	1.5	+	0.626
1598C/1598	2	5	2.80	0.86	5	0.80	0.80	0.5	+	0.127	5	37.15	32.84	5	2.05	2.05	1.2	-	0.007	5	8.08	4.51	5	2.04	2.04	0.7	+	0.257
846C/846	2	6	1.00	0.68	6	0.83	0.65	0.7	+	0.864	6	34.37	33.14	6	8.30	5.55	1.1	-	0.973	6	33.72	32.49	6	8.25	5.54	1.1	+	0.974
1650C/1650	2	6	1.83	0.83	6	0.00	0.00	0.6	+	0.079	6	1338.94	938.50	6	0.00	0.00	1.0	-	0.213	6	1328.13	935.42	6	0.00	0.00	1.0	+	0.215
Habitat Means			1.58	0.65		1.85	0.72		+			489.77	386.80		35.28	17.43		+			479.50	378.82		26.49	15.72		+	
Fisher's		Power	---			Power-50%	---	P-value		0.090xy	Power	---			Power-50%	---	P-value		0.006	Power	0.099			Power-50%	0.099	P-value		0.137
Stouffer's		Power	---			Power-50%	0.999	P-value		0.030	Power	---			Power-50%	---	P-value		0.002	Power	---			Power-50%	---	P-value		0.086
506C/506	3	6	8.33	0.49	4	10.50	3.88	0.2	-	0.617	6	746.30	375.34	4	1204.11	765.84	0.5	-	0.567	6	473.29	214.52	4	1108.26	740.65	0.6	-	0.353
1598C/1598	3	4	5.50	1.19	5	0.80	0.37	0.3	+	0.004	4	362.41	148.12	5	17.62	9.77	0.5	+	0.084	4	243.07	131.59	5	17.60	9.76	0.6	-	0.098
846C/846	3	6	3.17	1.19	6	2.50	1.63	0.5	+	0.748	6	215.53	208.03	6	37.39	36.63	1.2	+	0.260	6	99.27	96.68	6	2.07	1.81	1.3	+	0.476
1650C/1650	3	6	6.33	1.82	6	0.00	0.00	0.4	+	0.018	6	1956.73	1548.56	6	0.00	0.00	1.1	+	0.262	6	1810.33	1536.56	6	0.00	0.00	1.2	+	0.292
Habitat Means			5.83	1.17		3.45	1.47		+			820.24	570.01		314.78	203.06		+			656.49	494.84		281.98	188.06		+	
Fisher's		Power	---			Power-50%	---	P-value		0.002	Power	---			Power-50%	---	P-value		0.056	Power	0.353			Power-50%	0.353	P-value		0.107
Stouffer's		Power	---			Power-50%	0.878	P-value		0.000	Power	---			Power-50%	---	P-value		0.014	Power	---			Power-50%	---	P-value		0.024

(a) Lake 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.

		Annuals (A)								Ephemerals (AE)															
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.26	0.25	4	0.53	0.53	0.9	-	0.623	6	0.01	0.01	4	0.00	0.00	1.7	+	0.363									
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374									
846C/846	1	4	0.05	0.05	6	0.03	0.03	1.0	-	0.779	4	0.00	0.00	6	0.02	0.02	1.7	-	0.363									
1650C/1650	1	6	0.62	0.51	6	0.43	0.33	0.8	+	0.766	6	0.55	0.51	6	0.03	0.03	1.2	-	0.472									
Habitat Means			0.23	0.20		0.25	0.22		-			0.14	0.13		0.01	0.01		-										
Fisher's		Power	0.027			Power-50%	0.034	P-value		0.469	Power	0.000			Power-50%	0.000	P-value		0.524	Power	---			Power-50%	---	P-value		
Stouffer's		Power	0.067			Power-50%	0.000	P-value		0.248	Power	0.000			Power-50%	0.000	P-value		0.816	Power	---			Power-50%	---	P-value		
506C/506	2	6	0.57	0.57	4	35.08	20.84	0.6	-	0.005	6	0.57	0.57	4	0.10	0.08	1.5	+	0.114									
1598C/1598	2	5	29.07	28.42	5	0.00	0.00	1.4	+	0.040	5	26.91	26.90	5	0.00	0.00	1.4	+	0.374									
846C/846	2	6	0.65	0.65	6	0.05	0.05	1.3	+	0.604	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000									
1650C/1650	2	6	10.81	9.82	6	0.00	0.00	1.3	+	0.321	6	10.80	9.82	6	0.00	0.00	1.3	+	0.321									
Habitat Means			10.27	9.86		8.78	5.22		+			9.57	9.32		0.02	0.02		+										
Fisher's		Power	---			Power-50%	---	P-value		0.085x	Power	---			Power-50%	---	P-value		0.079	Power	---			Power-50%	---	P-value		
Stouffer's		Power	---			Power-50%	0.082	P-value		0.011	Power	0.124			Power-50%	0.042	P-value		0.141	Power	---			Power-50%	---	P-value		
506C/506	3	6	273.02	167.89	4	95.85	72.93	0.8	+	0.439	6	244.75	164.71	4	77.48	64.86	0.9	+	0.453									
1598C/1598	3	4	119.33	111.46	5	0.02	0.02	1.2	+	0.001	4	118.17	111.18	5	0.00	0.00	1.2	+	0.366									
846C/846	3	6	116.26	111.39	6	35.32	34.82	1.1	+	0.504	6	108.66	108.65	6	28.91	28.91	1.2	+	0.494									
1650C/1650	3	6	146.39	75.69	6	0.00	0.00	0.7	+	0.111	6	124.36	74.84	6	0.00	0.00	0.9	+	0.158									
Habitat Means			163.75	116.61		32.80	26.94		+			148.98	114.85		26.60	23.44		+										
Fisher's		Power	---			Power-50%	---	P-value		0.001	Power	---			Power-50%	---	P-value		0.076	Power	---			Power-50%	---	P-value		
Stouffer's		Power	---			Power-50%	0.225	P-value		0.000	Power	---			Power-50%	---	P-value		0.084	Power	---			Power-50%	---	P-value		

Table C-3.30. Algal Biomass. Chlorophyta. Prince William Sound. Coarse Textured. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.01	0.01	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.05	0.05	6	0.00	0.00	2.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.55	0.51	6	0.03	0.03	1.2	+	0.472	6	0.55	0.51	6	0.03	0.03	1.2	+	0.472	6	0.00	0.00	6	0.03	0.03	1.4	-	0.363
Habitat Means			0.15	0.14		0.01	0.01		+			0.14	0.13		0.01	0.01		-			0.00	0.00		0.01	0.01		+	
Fisher's		Power	0.004		Power-50%		0.013	P-value		0.266	Power	0.001		Power-50%		0.000	P-value		0.336	Power	---		Power-50%		---	P-value		0.582 y
Stouffer's		Power	0.019		Power-50%		0.000	P-value		0.660	Power	0.001		Power-50%		0.000	P-value		0.429	Power	---		Power-50%		---	P-value		0.586
506C/506	2	6	0.57	0.57	4	0.09	0.08	1.5	+	0.294	6	0.00	0.00	4	0.01	0.00	0.4	-	0.058	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	24.94	24.94	5	0.00	0.00	1.4	+	0.374	5	24.38	24.38	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.85	0.85	6	0.00	0.00	1.4	-	0.362	6	0.85	0.85	6	0.00	0.00	1.4	+	0.362	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			6.59	6.59		0.02	0.02		+			6.31	6.31		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.009		Power-50%		0.020	P-value		0.152	Power	0.000		Power-50%		0.000	P-value		0.413x	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.125		Power-50%		0.031	P-value		0.146	Power	0.000		Power-50%		0.020	P-value		0.150	Power	---		Power-50%		---	P-value		0.500
506C/506	3	6	9.41	4.82	4	31.37	21.24	0.6	-	0.253	6	4.33	1.92	4	30.91	20.82	0.7	-	0.769	6	0.05	0.05	4	10.68	10.67	1.1	-	0.306
1598C/1598	3	4	65.50	64.27	5	0.00	0.00	1.2	+	0.383	4	1.54	1.08	5	0.00	0.00	0.9	+	0.249	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	6	57.12	57.12	6	0.29	0.29	1.4	-	0.566	6	57.12	57.12	6	0.00	0.00	1.4	+	0.356	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	8.85	5.45	6	0.00	0.00	0.9	+	0.165	6	8.42	5.55	6	0.00	0.00	0.9	+	0.189	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			35.22	32.91		7.92	5.38		+			17.85	16.41		7.73	5.21		-			0.01	0.01		2.67	2.67		-	
Fisher's		Power	0.106		Power-50%		0.054	P-value		0.197	Power	0.123		Power-50%		0.054	P-value		0.102	Power	0.001		Power-50%		0.001	P-value		0.442
Stouffer's		Power	---		Power-50%		0.081	P-value		0.097	Power	---		Power-50%		---	P-value		0.050	Power	0.000		Power-50%		---	P-value		0.498

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.55	0.51	6	0.00	0.00	1.3	+	0.331	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.14	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.458	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.407	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.01	0.00	0.4	-	0.058	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	24.38	24.38	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	*0.00*	*0.00*	6	*0.00*	*0.00*	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.85	0.85	6	0.00	0.00	1.4	+	0.362	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			6.31	6.31		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.001	P-value		0.413x	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.016	P-value		0.150	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	6	4.27	1.94	4	19.68	11.62	0.5	-	0.999	6	*0.00*	*0.00*	4	0.55	0.55	1.1	-	0.391	6	0.00	0.00	4	0.55	0.55	1.1	-	0.391
1598C/1598	3	4	1.54	1.08	5	0.00	0.00	0.9	+	0.249	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	6	57.12	57.12	6	0.00	0.00	1.4	+	0.356	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	8.42	5.55	6	0.00	0.00	0.9	+	0.190	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			17.84	16.42		4.92	2.91		+			0.00	0.00		0.14	0.14		+			0.00	0.00		0.14	0.14		+	
Fisher's		Power	---		Power-50%		---	P-value		0.089	Power	---		Power-50%		---	P-value		0.578 y	Power	---		Power-50%		---	P-value		0.578 y
Stouffer's		Power	---		Power-50%		0.075	P-value		0.050	Power	---		Power-50%		---	P-value		0.414	Power	---		Power-50%		---	P-value		0.414

Table C-3.30. Algal Biomass. Chlorophyta. Prince William Sound. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens									Acrosiphonia sp. (A)									Total Chaetomorpha/Rhizoclonium (A)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.05	0.05	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.05	0.05	6	0.00	0.00	1.1	+	0.391
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.01	0.01		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value			0.388	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.306
Stouffer's		Power	---		Power-50%	---	P-value			0.721	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.405
506C/506	2	6	0.57	0.57	4	0.08	0.08	1.5	+	0.569	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.01	0.00	0.6	-	0.182
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.14	0.14		0.02	0.02		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.000		Power-50%	---	P-value			0.572	Power	---		Power-50%	---	P-value			0.698	Power	0.000		Power-50%	0.000	P-value			0.346
Stouffer's		Power	0.000		Power-50%	---	P-value			0.499	Power	---		Power-50%	---	P-value			0.500	Power	0.000		Power-50%	---	P-value			0.497
506C/506	3	6	3.41	1.81	4	0.46	0.45	0.8	+	0.233	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.67	0.66	4	0.00	0.00	1.7	+	0.359
1598C/1598	3	4	63.96	63.21	5	0.00	0.00	1.2	+	0.386	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.26	0.26	5	0.00	0.00	1.2	+	0.391
846C/846	3	6	0.00	0.00	6	0.29	0.29	1.4	-	0.644	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.43	0.42	6	0.00	0.00	1.4	+	0.355	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175
Habitat Means			16.95	16.36		0.19	0.19		+			0.00	0.00		0.00	0.00		+			0.23	0.23		0.00	0.00		-	
Fisher's		Power	0.113		Power-50%	0.069	P-value			0.159	Power	---		Power-50%	---	P-value			0.477	Power	0.037		Power-50%	0.037	P-value			0.113
Stouffer's		Power	0.227		Power-50%	0.085	P-value			0.182	Power	---		Power-50%	---	P-value			0.498	Power	0.220		Power-50%	0.008	P-value			0.129

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

Site Pair	MVD	Chaetomorpha/Rhizoclonium spp. (A) (b)									Chaetomorpha melagonium (A)									Cladophora sp. (AE)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374
846C/846	1	4	0.05	0.05	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%	---	P-value			0.306	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.581 y
Stouffer's		Power	---		Power-50%	---	P-value			0.405	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.795
506C/506	2	6	0.00	0.00	4	0.01	0.00	0.6	-	0.182	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.57	0.57	4	0.08	0.07	1.5	-	0.609
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.14	0.14		0.02	0.02		+	
Fisher's		Power	0.000		Power-50%	---	P-value			0.346	Power	---		Power-50%	---	P-value			0.698	Power	0.000		Power-50%	0.000	P-value			0.587
Stouffer's		Power	0.000		Power-50%	---	P-value			0.497	Power	---		Power-50%	---	P-value			0.500	Power	0.000		Power-50%	---	P-value			0.499
506C/506	3	6	0.67	0.66	4	0.00	0.00	1.7	+	0.359	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	2.74	1.58	4	0.46	0.45	0.9	+	0.290
1598C/1598	3	4	0.26	0.26	5	0.00	0.00	1.2	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	63.71	63.30	5	0.00	0.00	1.2	-	0.388
846C/846	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.29	0.29	1.4	-	0.644
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.43	0.42	6	0.00	0.00	1.4	-	0.361
Habitat Means			0.23	0.23		0.00	0.00		+			0.00	0.00		0.00	0.00		o			16.72	16.33		0.19	0.19		-	
Fisher's		Power	0.032		Power-50%	0.018	P-value			0.113	Power	---		Power-50%	---	P-value			0.698	Power	0.072		Power-50%	0.072	P-value			0.183
Stouffer's		Power	0.205		Power-50%	0.012	P-value			0.129	Power	---		Power-50%	---	P-value			0.500	Power	0.241		Power-50%	0.113	P-value			0.284

(b) Chaetomorpha melagonium not included.

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

Table C-3.30. Algal Biomass. Chlorophyta. Prince William Sound. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Gomontia polyrhiza (AE)									Morphological Group - Tubular and Saccate Greens									Total Blidingia/Enteromorpha (AE)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.56	0.56	5	0.00	0.00	1.4	+	0.372	5	0.56	0.56	5	0.00	0.00	1.4	-	0.372
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.14	0.14		0.00	0.00		·			0.14	0.14		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.584	Power	0.000		Power-50%		0.000	P-value		0.584
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.204	Power	0.000		Power-50%		0.002	P-value		0.204
506C/506	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.67	1.67	4	0.01	0.00	1.7	+	0.886	6	1.67	1.67	4	0.01	0.00	1.7	+	0.886
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.42	0.42		0.00	0.00		-			0.42	0.42		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	0.008		Power-50%		---	P-value		0.499 y	Power	0.008		Power-50%		0.008	P-value		0.499 y
Stouffer's		Power	---		Power-50%		---	P-value		0.413	Power	0.008		Power-50%		---	P-value		0.401	Power	0.007		Power-50%		---	P-value		0.401

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

Site Pair	MVD	Blidingia/Enteromorpha spp. (AE) (b)									Enteromorpha clathrata (AE)																	
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
846C/846	1	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000									
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391									
1598C/1598	2	5	0.56	0.56	5	0.00	0.00	1.4	+	0.372	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.14	0.14		0.00	0.00		+			0.00	0.00		0.00	0.00		-										
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.481	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		0.002	P-value		0.203	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		
506C/506	3	6	0.00	0.00	4	0.01	0.00	0.6	-	0.182	6	1.67	1.67	4	0.00	0.00	1.7	·	0.363									
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
846C/846	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363									
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		-			0.42	0.42		0.00	0.00		+										
Fisher's		Power	0.000		Power-50%		---	P-value		0.346	Power	---		Power-50%		---	P-value		0.582	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.31. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus cottonii (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	233.70	233.28	4	2.55	2.55	1.7	+	0.733	6	233.70	233.28	4	2.55	2.55	1.7	+	0.733	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	242.58	228.47	5	3.62	3.62	1.3	+	0.253	5	242.58	228.47	5	3.62	3.62	1.3	+	0.253	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	33.38	27.01	6	110.62	90.60	1.1	-	0.522	4	33.38	27.01	6	110.60	90.61	1.1	-	0.522	4	5.10	5.10	6	0.00	0.00	1.1	-	0.391
1650C/1650	1	6	31.50	31.42	6	10.27	4.47	1.1	+	0.281	6	31.43	31.43	6	9.90	4.46	1.1	+	0.150	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			135.29	130.05		31.76	25.31		+			135.27	130.05		31.67	25.31		+			1.28	1.28		0.00	0.00		+	
Fisher's		Power	0.027		Power-50%		0.143	P-value		0.221	Power	0.032		Power-50%		0.085	P-value		0.154	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	0.069		Power-50%		0.070	P-value		0.125	Power	0.078		Power-50%		0.057	P-value		0.108	Power	---		Power-50%		---	P-value		0.407
506C/506	2	6	548.05	542.84	4	86.63	50.66	1.5	-	0.629	6	548.05	542.84	4	86.63	50.66	1.5	+	0.633	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	8.94	5.64	5	2.04	2.04	0.8	+	0.283	5	5.34	2.20	5	2.04	2.04	0.6	+	0.303	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	33.73	32.51	6	8.25	5.53	1.1	+	0.973	6	33.72	32.49	6	8.25	5.53	1.1	+	0.974	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363
1650C/1650	2	6	1337.83	937.81	6	0.00	0.00	1.0	+	0.213	6	1327.87	935.50	6	0.00	0.00	1.0	-	0.215	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			482.14	379.70		24.23	14.56		+			478.74	378.26		24.23	14.56		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.069		Power-50%		0.081	P-value		0.145	Power	0.064		Power-50%		0.080	P-value		0.152	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		0.092	P-value		0.095	Power	0.209		Power-50%		0.084	P-value		0.102	Power	---		Power-50%		---	P-value		0.401
506C/506	3	6	714.56	367.36	4	1150.96	746.23	0.6	-	0.576	6	455.03	212.52	4	1101.35	739.56	0.6	-	0.344	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	142.67	78.47	5	17.60	9.76	0.6	+	0.140	4	89.08	46.02	5	17.60	9.76	0.6	+	0.132	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	6	154.31	151.71	6	32.90	32.68	1.2	+	0.542	6	99.27	96.68	6	0.17	0.17	1.4	+	0.128	6	0.04	0.02	6	0.00	0.00	0.8	+	0.150
1650C/1650	3	6	1868.98	1551.39	6	0.00	0.00	1.2	+	0.282	6	1732.18	1547.52	6	0.00	0.00	1.3	-	0.314	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			720.13	537.23		300.36	197.17		+			593.89	475.69		279.78	187.37		-			0.01	0.01		0.00	0.00		+	
Fisher's		Power	0.244		Power-50%		0.150	P-value		0.129	Power	---		Power-50%		---	P-value		0.059	Power	0.001		Power-50%		0.001	P-value		0.315
Stouffer's		Power	---		Power-50%		0.180	P-value		0.036	Power	---		Power-50%		---	P-value		0.020	Power	0.000		Power-50%		0.000	P-value		0.346

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

		Fucus gardneri (P)								Petalonia fascia (AE)								Total Punctaria (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	233.70	233.28	4	2.55	2.55	1.7	+	0.733	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	242.58	228.47	5	3.62	3.62	1.3	+	0.253	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	28.28	28.28	6	110.60	90.61	1.2	-	0.496	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	31.43	31.43	6	9.90	4.46	1.1	-	0.150	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			134.00	130.37		31.67	25.31		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.012		Power-50%		0.038	P-value		0.156	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.049		Power-50%		0.042	P-value		0.110	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	548.05	542.84	4	86.63	50.66	1.5	+	0.633	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	5.34	2.20	5	2.04	2.04	0.6	+	0.303	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	33.70	32.48	6	8.25	5.53	1.1	+	0.974	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	1327.87	935.50	6	0.00	0.00	1.0	+	0.215	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			478.74	378.26		24.23	14.56		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.055		Power-50%		0.091	P-value		0.152	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.206		Power-50%		0.091	P-value		0.102	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	6	455.03	212.52	4	1101.35	739.56	0.6	-	0.344	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	89.08	46.02	5	17.60	9.76	0.6	+	0.132	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	6	99.23	96.69	6	0.17	0.17	1.4	+	0.185	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	1732.18	1547.52	6	0.00	0.00	1.3	+	0.314	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			593.88	475.69		279.78	187.37		+			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.075	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		0.221	P-value		0.022	Power	---		Power-50%		---	P-value		0.401	Power	---		Power-50%		---	P-value		0.500

Table C-3.31. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Punctaria spp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.07	0.07	6	0.37	0.29	1.0	-	0.505	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.02	0.02		0.09	0.07		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		---	P-value		0.562 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.562	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.64	1.64	5	0.00	0.00	1.4	-	0.599	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.01	0.00	6	0.00	0.00	0.7	-	0.102	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.42	0.42		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.321		Power-50%		0.165	P-value		0.106	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.437		Power-50%		0.175	P-value		0.128	Power	---		Power-50%		---	P-value		0.500
506C/506	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	23.52	18.13	4	3.50	2.90	1.2	+	0.167	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.67	0.36	5	0.00	0.00	0.7	+	0.158	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.50	3.50	6	4.12	4.10	1.0	-	0.912	6	0.34	0.33	6	0.97	0.97	1.1	-	0.551
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	21.27	17.15	6	0.00	0.00	1.1	+	0.270	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			12.24	9.78		1.91	1.75		-			0.08	0.08		0.24	0.24		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.054	Power	0.000		Power-50%		0.000	P-value		0.565
		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.060	Power	0.000		Power-50%		0.000	P-value		0.435

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

Site Pair	MVD	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.02	0.02	1.7	-	0.363
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.07	0.07	6	0.37	0.29	1.0	-	0.505	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.02	0.02		0.09	0.07		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		---	P-value		0.562 y	Power	---		Power-50%		---	P-value		0.582 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.562	Power	---		Power-50%		---	P-value		0.597
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.01	0.00	0.4	-	0.058
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.64	1.64	5	0.00	0.00	1.4	+	0.599	5	1.96	1.96	5	0.00	0.00	1.4	+	0.374
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.01	0.00	6	0.00	0.00	0.7	-	0.102	6	9.95	9.95	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.42	0.42		0.00	0.00		-			2.98	2.98		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.313		Power-50%		0.144	P-value		0.106	Power	0.000		Power-50%		0.000	P-value		0.413x
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.429		Power-50%		0.161	P-value		0.128	Power	0.000		Power-50%		0.001	P-value		0.150
506C/506	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	23.52	18.13	4	3.50	2.90	1.2	+	0.167	6	236.01	160.14	4	46.11	44.67	1.0	+	0.378
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.67	0.36	5	0.00	0.00	0.7	+	0.158	4	52.92	46.92	5	0.00	0.00	1.1	+	0.341
846C/846	3	6	0.34	0.33	6	0.97	0.97	1.1	-	0.551	6	3.17	3.17	6	3.15	3.13	1.0	+	0.997	6	51.54	51.53	6	28.61	28.61	1.0	+	0.706
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	21.27	17.15	6	0.00	0.00	1.1	+	0.270	6	115.51	73.86	6	0.00	0.00	0.9	+	0.179
Habitat Means			0.08	0.08		0.24	0.24		-			12.16	9.70		1.66	1.51		+			114.00	83.11		18.68	18.32		+	
Fisher's		Power	0.000		Power-50%	0.000	P-value			0.565	Power	---		Power-50%		---	P-value		0.051	Power	---		Power-50%		---	P-value		0.087
		Power	0.000		Power-50%	0.000	P-value			0.435	Power	---		Power-50%		---	P-value		0.056	Power	---		Power-50%		---	P-value		0.094

(a) Genera not separated.

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

Table C-3.31. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Ectocarpus sp. (AE) N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	1.96	1.96	5	0.00	0.00	1.4	+	0.374
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	9.95	9.95	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			2.98	2.98		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.378
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.003	P-value		0.148
506C/506	3	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	236.01	160.14	4	46.10	44.67	1.0	+	0.378
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	52.83	46.83	5	0.00	0.00	1.1	+	0.341
846C/846	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	51.54	51.53	6	28.32	28.32	1.0	+	0.701
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	115.51	73.86	6	0.00	0.00	0.9	+	0.179
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-			113.97	83.09		18.61	18.25		+	
Fisher's		Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.087
Stouffer's		Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.093

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

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.00	0.00	6	0.02	0.02	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.401	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.01	0.00	0.6	-	0.182	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.346	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	6	0.00	0.00	4	0.01	0.00	0.7	-	0.973	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	0.09	0.09	5	0.00	0.00	1.2	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	6	0.00	0.00	6	0.29	0.29	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.02		0.07	0.07		-			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.009		Power-50%	0.031	P-value			0.572	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.005		Power-50%	0.036	P-value			0.708	Power	---		Power-50%		---	P-value		0.413	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.31. Algal Biomass. Phaeophyta. Prince William Sound. Coarse Textured. May 1991. (Continued.)

		Soranthera ulvoidea (A)																													
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00		-	o	1.000																		
1598C/1598	1	5	0.00	0.00	5	0.00	0.00		-	o	1.000																		
846C/846	1	4	0.00	0.00	6	0.00	0.00		-	o	1.000																		
1650C/1650	1	6	0.00	0.00	6	0.00	0.00		-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00			o																					
Fisher's		Power	---		Power-50%		---	P-value			0.698	Power	---		Power-50%		---	P-value													
Stouffer's		Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value													
506C/506	2	6	0.00	0.00	4	0.00	0.00		-	o	1.000																		
1598C/1598	2	5	0.00	0.00	5	0.00	0.00		-	o	1.000																		
846C/846	2	6	0.00	0.00	6	0.00	0.00		-	o	1.000																		
1650C/1650	2	6	0.00	0.00	6	0.00	0.00		-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00			o																					
Fisher's		Power	---		Power-50%		---	P-value			0.698	Power	---		Power-50%		---	P-value													
Stouffer's		Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value													
506C/506	3	6	0.00	0.00	4	0.00	0.00		-	o	1.000																		
1598C/1598	3	4	0.00	0.00	5	0.00	0.00		-	o	1.000																		
846C/846	3	6	0.00	0.00	6	0.00	0.00		-	o	1.000																		
1650C/1650	3	6	0.02	0.02	6	0.00	0.00	1.4	+		0.363																		
Habitat Means			0.00	0.00		0.00	0.00			+																					
Fisher's		Power	---		Power-50%		---	P-value			0.477	Power	---		Power-50%		---	P-value													
Stouffer's		Power	---		Power-50%		---	P-value			0.413	Power	---		Power-50%		---	P-value													

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

Table C-3.32. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.25	0.25	4	0.53	0.53	0.9	-	0.613	6	0.00	0.00	4	0.00	0.00		-	o	1.000	6	0.00	0.00	4	0.00	0.00		-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	1.0	o	1.000	5	0.00	0.00	5	0.00	0.00		-	o	1.000	5	0.00	0.00	5	0.00	0.00		-	o	1.000
846C/846	1	4	0.00	0.00	6	0.07	0.07	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	0.00	0.00	6	0.00	0.00		-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.04	0.04	1.4	-	0.741	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.06	0.06		0.16	0.16		-			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.017			Power-50%	0.001	P-value		0.330	Power	---			Power-50%	---	P-value		0.698	Power	---			Power-50%	---	P-value		0.698
Stouffer's		Power	0.085			Power-50%	0.002	P-value		0.369	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
506C/506	2	6	0.00	0.00	4	44.03	26.35	0.7	-	0.193	6	0.00	0.00	4	0.00	0.01	0.01	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00		-	o	1.000
1598C/1598	2	5	3.26	2.36	5	0.00	0.00	1.0	+	0.017	5	0.00	0.00	5	0.00	0.00		-	o	1.000	5	0.00	0.00	5	0.00	0.00		-	o	1.000
846C/846	2	6	0.63	0.63	6	0.05	0.05	1.3	+	0.854	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
1650C/1650	2	6	0.27	0.27	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		-				0.00	0.00		0.00	0.00		o		
Habitat Means			1.04	0.81		11.02	6.60		+			0.00	0.00		0.00	0.00		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---			Power-50%	---	P-value		0.063 y	Power	---			Power-50%	---	P-value		0.492	Power	---			Power-50%	---	P-value		0.698
Stouffer's		Power	---			Power-50%	0.179	P-value		0.007	Power	---			Power-50%	---	P-value		0.498	Power	---			Power-50%	---	P-value		0.500
506C/506	3	6	22.32	16.97	4	21.78	11.65	0.7	+	0.982	6	3.48	3.06	4	5.83	4.41	0.8	-	0.663	6	0.37	0.37	4	5.33	4.49	0.9	-	0.086
1598C/1598	3	4	154.24	153.85	5	0.02	0.02	1.2	+	0.072	4	0.00	0.00	5	0.00	0.00		-	o	1.000	6	0.00	0.00	5	0.00	0.00		-	o	1.000
846C/846	3	6	4.10	3.82	6	4.20	3.69	0.9	-	0.985	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
1650C/1650	3	6	78.89	53.23	6	0.00	0.00	1.0	+	0.198	6	0.07	0.07	6	0.00	0.00	1.4	-	0.350	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			64.89	56.97		6.50	3.84		+			0.89	0.78		1.46	1.10		-				0.09	0.09		1.33	1.12		-		
Fisher's		Power	---			Power-50%	---	P-value		0.080	Power	0.000			Power-50%	0.001	P-value		0.530 y	Power	0.004			Power-50%	0.004	P-value		0.234
Stouffer's		Power	---			Power-50%	0.074	P-value		0.024	Power	0.000			Power-50%	0.000	P-value		0.411	Power	0.001			Power-50%	---	P-value		0.497

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

		Total Palmaria (A)								Palmaria spp. (A)								Palmaria callophylloides (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00		-	o 1.000	6	0.00	0.00	4	0.00	0.00		-	o	1.000	6	0.00	0.00	4	0.00	0.00		-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o	1.000	5	0.00	0.00	5	0.00	0.00		-	o	1.000
846C/846	1	4	0.00	0.00	6	0.00	0.00		-	o 1.000	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	0.00	0.00	6	0.00	0.00		-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---			Power-50%	---	P-value		0.698	Power	---			Power-50%	---	P-value		0.698	Power	---			Power-50%	---	P-value		0.698
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00		-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00		-	o 1.000	5	0.00	0.00	5	0.00	0.00		-	o	1.000	5	0.00	0.00	5	0.00	0.00		-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---			Power-50%	---	P-value		0.492	Power	---			Power-50%	---	P-value		0.492	Power	---			Power-50%	---	P-value		0.698
Stouffer's		Power	---			Power-50%	---	P-value		0.498	Power	---			Power-50%	---	P-value		0.498	Power	---			Power-50%	---	P-value		0.500
506C/506	3	6	3.12	3.12	4	0.00	0.00	1.7	+	0.755	6	0.00	0.00	4	0.00	0.00		-	o	1.000	6	3.12	3.12	4	0.00	0.00	1.7	+	0.755
1598C/1598	3	4	0.00	0.00	5	0.00	0.00		-	o 1.000	4	0.00	0.00	5	0.00	0.00		-	o	1.000	4	0.00	0.00	5	0.00	0.00		-	o	1.000
846C/846	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
1650C/1650	3	6	0.07	0.07	6	0.00	0.00	1.4	+	0.363	6	0.07	0.07	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.80	0.80		0.00	0.00		+			0.02	0.02		0.00	0.00		+				0.78	0.78		0.00	0.00		+		
Fisher's		Power	---			Power-50%	---	P-value		0.421	Power	---			Power-50%	---	P-value		0.477	Power	---			Power-50%	---	P-value		0.635
								P-value		0.422	Power	---			Power-50%	---	P-value		0.413	Power	---			Power-50%	---	P-value		0.499

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

Table C-3.32. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	0.698			Power	---		Power-50%	---	P-value	0.698			Power	---		Power-50%	---	P-value	0.698		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500		
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	0.698			Power	---		Power-50%	---	P-value	0.492			Power	---		Power-50%	---	P-value	0.698		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.498			Power	---		Power-50%	---	P-value	0.500		
506C/506	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.50	0.50	1.1	-	0.388	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	*6*	*0.00*	*0.00*	*6*	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.13	0.12		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	0.477			Power	0.000		Power-50%	---	P-value	0.490			Power	---		Power-50%	---	P-value	0.698		
Stouffer's		Power	---		Power-50%	---	P-value	0.413			Power	0.000		Power-50%	---	P-value	0.498			Power	---		Power-50%	---	P-value	0.500		

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

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.25	0.25	4	0.53	0.53	0.9	-	0.613	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	*5*	*0.00*	*0.00*	5	0.00	0.00	1.0	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.00	0.00	6	0.07	0.07	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.04	0.04	1.4	-	0.741	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.06	0.06		0.16	0.16		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.016		Power-50%	0.000	P-value	0.330			Power	---		Power-50%	---	P-value	0.698			Power	---		Power-50%	---	P-value	0.698		
Stouffer's		Power	0.084		Power-50%	0.000	P-value	0.369			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500		
506C/506	2	6	0.00	0.00	4	44.03	26.34	0.7	-	0.193	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	3.26	2.36	5	0.00	0.00	1.0	+	0.017	5	*0.00*	*0.00*	5	*0.00*	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.63	0.63	6	0.05	0.05	1.3	+	0.854	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.27	0.27	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.04	0.81		11.02	6.60		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	0.063	y		Power	---		Power-50%	---	P-value	0.698			Power	---		Power-50%	---	P-value	0.698		
Stouffer's		Power	---		Power-50%	0.200	P-value	0.007			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500		
506C/506	3	6	18.69	17.46	4	3.21	1.05	1.4	+	0.601	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.60	0.58	4	0.63	0.62	1.0	-	0.976
1598C/1598	3	4	154.15	153.88	5	0.00	0.00	1.2	+	0.390	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	*0.00*	*0.00*	5	*0.00*	*0.00*	-	o	*1.000*
846C/846	3	6	4.10	3.82	6	2.30	1.81	0.9	+	0.679	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	78.79	53.22	6	0.00	0.00	1.0	+	0.199	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.13	0.13	6	0.00	0.00	1.4	-	0.363
Habitat Means			63.93	57.10		1.38	0.72		+			0.00	0.00		0.00	0.00		o			0.18	0.18		0.16	0.16		+	
Fisher's		Power	0.061		Power-50%	0.055	P-value	0.132			Power	---		Power-50%	---	P-value	0.698			Power	0.000		Power-50%	0.000	P-value	0.481		
Stouffer's		Power	0.166		Power-50%	0.068	P-value	0.110			Power	---		Power-50%	---	P-value	0.500			Power	0.000		Power-50%	0.000	P-value	0.413		

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

Table C-3.32. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. May 1991. (Continued.)

		Endocladia muricata (P)								Gloiopeltis furcata (A)								Total Neorhodomela/Rhodomela (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.25	0.25	4	0.50	0.50	0.5			6	0.00	0.00	4	0.00	0.00	-		
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	1.0	o	1.000
846C/846	1	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.02	0.02	1.7	-	0.363	4	0.00	0.00	6	0.05	0.05	1.7	-	0.363
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.03	0.03	1.3	-	0.744	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.06	0.06		0.14	0.14		-			0.00	0.00		0.01	0.01		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.003		Power-50%		0.000	P-value		0.331	Power	---		Power-50%		---	P-value		0.258
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.032		Power-50%		0.000	P-value		0.370	Power	---		Power-50%		---	P-value		0.318
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	34.98	20.88	0.7	-	0.193	6	0.00	0.00	4	9.05	7.05	0.9	-	0.290
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.52	0.34	5	0.00	0.00	0.9	+	0.286	5	2.74	2.47	5	0.00	0.00	1.3	+	0.100
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.63	0.63	6	0.05	0.05	1.3	+	0.852	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.27	0.27	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.29	0.24		8.76	5.23		+			0.75	0.68		2.26	1.76		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.028	P-value		0.517 y	Power	0.006		Power-50%		0.006	P-value		0.257
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.208	P-value		0.150	Power	---		Power-50%		---	P-value		0.068
506C/506	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.20	0.13	4	1.01	0.93	0.9	-	0.233	6	17.89	17.60	4	1.28	0.94	1.6	+	0.693
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.15	0.15	5	0.00	0.00	1.2	+	0.391	4	154.00	153.93	5	0.00	0.00	1.2	+	0.391
846C/846	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.10	3.82	6	0.40	0.40	2.2	+	0.162	6	0.00	0.00	6	1.90	1.84	1.4	-	0.349
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.50	0.50	6	0.00	0.00	1.4	+	0.362	6	78.15	53.24	6	0.00	0.00	1.0	+	0.202
Habitat Means			0.00	0.00		0.00	0.00		o			1.24	1.15		0.35	0.33		+			62.51	56.20		0.80	0.70		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.039		Power-50%		0.081	P-value		0.153	Power	0.004		Power-50%		0.004	P-value		0.241
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.081	Power	0.008		Power-50%		0.017	P-value		0.197

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

		Neorhodomela/Rhodomela spp. (P) (b)								Ptilota sp. (P)								Morphological Group - Fine Filamentous Reds							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	1.0	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.00	0.00	6	0.05	0.05	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.01	0.01		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.258	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.318	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	9.05	7.05	0.9	-	0.290	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
1598C/1598	2	5	2.74	2.47	5	0.00	0.00	1.3	+	0.100	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.27	0.27	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.75	0.68		2.26	1.76		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.007		Power-50%		0.002	P-value		0.257 y	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		0.056	P-value		0.068	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498
506C/506	3	6	17.89	17.60	4	1.28	0.94	1.6	+	0.693	6	0.00	0.00	4	0.30	0.30	1.1	-	0.391	6	0.15	0.08	4	3.06	3.05	1.0	-	0.845
1598C/1598	3	4	154.00	153.93	5	0.00	0.00	1.2	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.09	0.09	5	0.02	0.02	1.1	+	0.420
846C/846	3	6	0.00	0.00	6	1.90	1.84	1.4	-	0.349	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.90	1.90	1.4	-	0.363
1650C/1650	3	6	78.15	53.24	6	0.00	0.00	1.0	+	0.202	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.04	0.03	6	0.00	0.00	1.2	+	0.293
Habitat Means			62.51	56.20		0.80	0.70		+			0.00	0.00		0.08	0.08		-			0.07	0.05		1.25	1.24		+	
Fisher's		Power	0.002		Power-50%		0.009	P-value		0.241	Power	---		Power-50%		---	P-value		0.492	Power	0.003		Power-50%		0.003	P-value		0.390 y
Stouffer's		Power	0.005		Power-50%		0.017	P-value		0.197	Power	---		Power-50%		---	P-value		0.498	Power	0.005		Power-50%		0.020	P-value		0.226

eorhodomela larix not included.

Table C-3.32. Algal Biomass. Rhodophyta. Prince William Sound. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.498	Power	---		Power-50%		---	P-value		0.500
506C/506	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.15	0.08	4	3.06	3.05	1.0	-	0.845	6	0.00	0.00	4	9.68	5.87	0.7	-	0.198
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.09	0.09	5	0.02	0.02	1.1	+	0.420	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.90	1.90	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.04	0.03	6	0.00	0.00	1.2	+	0.293	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.07	0.05		1.25	1.24		+			0.00	0.00		2.42	1.47		-	
Fisher's		Power	---		Power-50%		---	P-value		*0.698*	Power	*0.002*		Power-50%		*0.047*	P-value		*0.390* y	Power	*0.040*		Power-50%		*0.040*	P-value		*0.361*
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.005		Power-50%		0.022	P-value		0.226	Power	0.008		Power-50%		---	P-value		0.497

(a) Genera not separated.

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

Site Pair	MVD	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	1	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	1	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
1598C/1598	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
506C/506	3	6	0.00	0.00	4	9.68	5.87	0.7	-	0.198	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	9.68	5.87	0.7	-	0.198
1598C/1598	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
846C/846	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1650C/1650	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.42	1.47		-			0.00	0.00		0.00	0.00		o			0.00	0.00		2.42	1.47		-	
Fisher's		Power	0.032		Power-50%		---	P-value		0.361	Power	---		Power-50%		---	P-value		0.698	Power	0.033		Power-50%		0.033	P-value		0.361
Stouffer's		Power	0.009		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value		0.500	Power	0.008		Power-50%		---	P-value		0.497

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

Table C-3.33. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Estuarine. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)							Total [illegible]							Perennials (P)							
			N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0				0																						
2397C/20809	1	3	0.67	0.67		5	1.80	1.56	1.2	-	0.615	3	313.20	313.20	5	152.64	152.42	0.9	+		3	313.20	313.20	5	149.78	149.78	0.9	+	
Habitat Means			0.67	0.67			1.80	1.56		-			313.20	313.20		152.64	152.42		+			313.20	313.20		149.78	149.78		+	
Fisher's	Power		---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		z
Stouffer's	Power		---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	0	--	--		0	--	--	-		---	0	--	--	0	--	--	-			0	--	--	0	--	--	-		
2397C/20809	2	3	1.33	0.67		6	2.33	0.84	0.5	-	0.470	3	242.43	194.41	6	780.99	598.47	1.2	-		3	242.43	194.41	6	776.20	599.65	1.2	-	
Habitat Means			1.33	0.67			2.33	0.84		-			242.43	194.41		780.99	598.47		-			242.43	194.41		776.20	599.65		-	
Fisher's	Power		---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		z
Stouffer's	Power		---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--		0	--	--	-		---	0	--	--	0	--	--	-			0	--	--	0	--	--	-		
2397C/20809	3	3	1.33	0.88		3	1.67	1.20	0.7	-	0.834	3	1035.90	1032.46	3	452.00	436.99	1.1	+		3	1035.90	1032.45	3	434.97	419.96	1.1	+	
Habitat Means			1.33	0.88			1.67	1.20		-			1035.90	1032.46		452.00	436.99		+			1035.90	1032.45		434.97	419.96		+	
Fisher's	Power		---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

(a) 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.

			Annuals (A)								Ephemerals (AE)																			
Site Pair		MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--		0	--	--	-		---	0	--	--	0	--	--	-		---									
2397C/20809	1	3	0.00	0.00		5	2.86	2.64	1.7	-	0.340	3	0.00	0.00	5	2.46	2.46	1.8	-	0.374									
Habitat Means			0.00	0.00			2.86	2.65		-			0.00	0.00		2.46	2.46		-										
Fisher's	Power		---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value	
P15.1C/P15.1	2	0	--	--		0	--	--	-		---	0	--	--	0	--	--	-		---									
2397C/20809	2	3	0.00	0.00		6	4.79	4.36	1.8	-	0.322	3	0.00	0.00	6	4.79	4.36	1.8	-	0.322									
Habitat Means			0.00	0.00			4.79	4.36		-			0.00	0.00		4.79	4.36		-										
Fisher's	Power		---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value	
P15.1C/P15.1	3	0	--	--		0	--	--	-		---	0	--	--	0	--	--	-		---									
2397C/20809	3	3	0.00	0.00		3	17.03	17.03	1.4	-	0.574	3	0.00	0.00	3	16.77	16.77	1.4	-	0.423									
Habitat Means			0.00	0.00			17.03	17.03		-			0.00	0.00		16.77	16.77		-										
Fisher's	Power		---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value	
[illegible]	[illegible]		[illegible]		[illegible]		[illegible]	[illegible]		[illegible]		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value	

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

Table C-3.34. Algal Biomass. Chlorophyta. Prince William Sound. Estuarine. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	1	3	0.00	0.00	5	0.05	0.05	1.8	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.05	0.05	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	4.39	4.37	1.9	-	0.361	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		4.39	4.37	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.17	0.17	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00	o				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00	o				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00	o				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(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-3.34. Algal Biomass. Chlorophyta. Prince William Sound. Estuarine. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens N	C	SE	Acrosiphonia sp. (A) N	O	SE	CV	D	P	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P
2397C/20809	1	3	0.00	0.00	5	0.05	0.05	1.8	-	0.374	3	0.00	0.00	5	0.02	0.02	1.8	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.05	0.05		-			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value	---	z	Power	---		Power-50%	---		P-value	---	z	Power	---		Power-50%	---		P-value	---	z
Stouffer's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---	
P15.1C/P15.1	2	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
2397C/20809	2	3	0.00	0.00	6	0.01	0.00	1.3	-	0.203	3	0.00	0.00	6	0.00	0.00	2.0	-	0.363	3	0.00	0.00	6	0.00	0.00	2.0	-	0.363
Habitat Means			0.00	0.00		0.01	0.00		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%	---		P-value	---	z	Power	---		Power-50%	---		P-value	---	z	Power	---		Power-50%	---		P-value	---	z
Stouffer's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---	
P15.1C/P15.1	3	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
2397C/20809	3	3	0.00	0.00	3	0.17	0.17	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value	---	z	Power	---		Power-50%	---		P-value	---	z	Power	---		Power-50%	---		P-value	---	z
Stouffer's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---	

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

Site Pair	MVD	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0			--	0	--	--	-	---
2397C/20809	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.02	0.02	1.8	-	0.374	3	0.00	0.00	5	0.00	0.00	1.8	-	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%	---		P-value	---	z	Power	---		Power-50%	---		P-value	---	z	Power	---		Power-50%	---		P-value	---	z
Stouffer's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---	
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	2.0	-	0.363	3	0.00	0.00	6	0.00	0.00	2.0	-	0.363	3	0.00	0.00	6	4.39	4.37	1.9	-	0.361
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-			0.00	0.00		4.39	4.37		-	
Fisher's		Power	---		Power-50%	---		P-value	---	z	Power	---		Power-50%	---		P-value	---	z	Power	---		Power-50%	---		P-value	---	z
Stouffer's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.17	0.17	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value	---	z	Power	---		Power-50%	---		P-value	---	z	Power	---		Power-50%	---		P-value	---	z
Stouffer's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---	

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

Table C-3.34. Algal Biomass. Chlorophyta. Prince William Sound. Estuarine. September 1989. (Continued.)

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P
2397C/20809	1	3	0.00	0.00	5	0.00	0.00	1.8	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	1.8	-	
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		
2397C/20809	2	3	0.00	0.00	6	4.39	4.37	1.9	-	0.361	3	0.00	0.00	6	4.37	4.37	2.0	-	0.363	3	0.00	0.00	6	0.00	0.00	-	o	
Habitat Means			0.00	0.00		4.39	4.37		-			0.00	0.00		4.37	4.37		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0			0			-		
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Site Pair	MVD	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---																		
2397C/20809	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	0	--	--	0	--	--	-		---																		
2397C/20809	2	3	0.00	0.00	6	0.02	0.02	2.0	-	0.363																		
Habitat Means			0.00	0.00		0.02	0.02		-																			
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---																		
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.35. Algal Biomass. Phaeophyta. Prince William Sound. Estuarine. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus cottonii (P)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	1	3	313.20	313.20	5	152.05	151.83	0.9	+	0.617	3	313.20	313.20	5	149.24	149.24	0.9	+	0.608	3	4.80	4.80	5	0.00	0.00	1.0	+	0.423
Habitat Means			313.20	313.20		152.05	151.83		+			313.20	313.20		149.24	149.24		+			4.80	4.80		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	2	3	212.83	177.40	6	776.36	599.62	1.2	-	0.545	3	212.83	177.40	6	775.97	599.68	1.2	-	0.545	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			212.83	177.40		776.36	599.62		-			212.83	177.40		775.97	599.68		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z	
Stouffer's		*Power*	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	1032.90	1029.46	3	451.83	436.82	1.1	+	0.631	3	1032.90	1029.45	3	434.97	419.96	1.1	+	0.619	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			1032.90	1029.46		451.83	436.82		+			1032.90	1029.45		434.97	419.96		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		

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

		Fucus gardneri (P)								Morphological Group - Coarse Filamentous Browns								Chordaria flagelliformis (A)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	1	3	308.40	308.40	5	149.24	149.24	0.9	+	0.615	3	0.00	0.00	5	0.00	0.00	1.8	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			308.40	308.40		149.24	149.24		+			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	2	3	212.83	177.40	6	775.97	599.68	1.2	-	0.545	3	0.00	0.00	6	0.00	0.00	2.0	-	0.363	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			212.83	177.40		775.97	599.68		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	1032.90	1029.45	3	434.97	419.96	1.1	+	0.619	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			1032.90	1029.45		434.97	419.96		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z		Power	---		Power-50%	---	P-value	---	z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---		

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

Table C-3.35. Algal Biomass. Phaeophyta. Prince William Sound. Estuarine. September 1989. (Continued.)

Site Pair	MVD	Total *Dictyosiphon* (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
2397C/20809	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	2.0	-	0.363	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	2.0	-	0.363	
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	1.4	+	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	1.4	+	0.423	
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			

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

Site Pair	MVD	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
2397C/20809	1	3	0.00	0.00	5	0.00	0.00	1.8	-	0.374	3	0.00	0.00	5	2.43	2.43	1.8	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		2.43	2.43		-			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.40	0.34	1.7	-	0.301	3	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.40	0.34		-			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	16.60	16.60	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		16.60	16.60		-			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---			

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

Table C-3.35. Algal Biomass. Phaeophyta. Prince William Sound. Estuarine. September 1989. (Continued.)

Site Pair	MVD	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P
2397C/20809	1	3	0.00	0.00	5	2.43	2.43	1.8	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.38	0.23	1.1	-	0.179
Habitat Means			0.00	0.00		2.43	2.43		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.38	0.23		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.40	0.34	1.7	-	0.301	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.40	0.34		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	16.60	16.60	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.27	0.27	1.4	-	0.423
Habitat Means			0.00	0.00		16.60	16.60		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.27	0.27		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
2397C/20809	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.38	0.23	1.1	-	0.179									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.38	0.23		-										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
2397C/20809	3	3	0.00	0.00	3	0.27	0.27	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.27	0.27		-			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

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

Table C-3.36. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
2397C/20809	1	3	0.00	0.00	5	0.54	0.54	1.8	-	0.374	3	0.00	0.00	5	0.00	0.00		-	o	1.000	3	0.00	0.00	5	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.54	0.54		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's		Power		---		Power-50%		---	P-value	---	z	Power		---		Power-50%		---	P-value	---	z	Power		---		Power-50%		---	P-value	---	z
Stouffer's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-			---	0	--	--	0	--	--	-			---
2397C/20809	2	3	29.60	17.89	6	0.23	0.23	0.5	+	0.097	3	20.60	20.60	6	0.00	0.00	0.9	+		0.423	3	20.60	20.60	6	0.00	0.00	0.9	-		0.423
Habitat Means			29.60	17.89		0.23	0.23		+			20.60	20.60		0.00	0.00		+			20.60	20.60		0.00	0.00		-		
Fisher's		Power		---		Power-50%		---	P-value	---	z	Power		---		Power-50%		---	P-value	---	z	Power		---		Power-50%		---	P-value	---	z
Stouffer's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-			---	0	--	--	0	--	--	-			---
2397C/20809	3	3	3.00	3.00	3	0.00	0.00	1.4	+	0.423	3	3.00	3.00	3	0.00	0.00	1.4	+		0.423	3	3.00	3.00	3	0.00	0.00	1.4	+		0.423
Habitat Means			3.00	3.00		0.00	0.00		+			3.00	3.00		0.00	0.00		+			3.00	3.00		0.00	0.00		+		
Fisher's		Power		---		Power-50%		---	P-value	---	z	Power		---		Power-50%		---	P-value	---	z	Power		---		Power-50%		---	P-value	---	z
Stouffer's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	

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

		Total Palmaria (A)								Palmaria callophylloides (A)								Porphyra sp. (A)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-			---	0	--	--	0	--	--	-			---
2397C/20809	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o		1.000	3	0.00	0.00	5	0.00	0.00	-	o		1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's		Power		---		Power-50%		---	P-value	---	z	Power		---		Power-50%		---	P-value	---	z	Power		---		Power-50%		---	P-value	---	z
Stouffer's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-			---	0	--	--	0	--	--	-			---
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o		1.000	3	0.00	0.00	6	0.00	0.00	-	o		1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's		Power		---		Power-50%		---	P-value	---	z	Power		---		Power-50%		---	P-value	---	z	Power		---		Power-50%		---	P-value	---	z
Stouffer's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-			---	0	--	--	0	--	--	-			---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o		1.000	3	0.00	0.00	3	0.00	0.00	-	o		1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's		Power		---		Power-50%		---	P-value	---	z	Power		---		Power-50%		---	P-value	---	z	Power		---		Power-50%		---	P-value	---	z
Stouffer's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	

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

Table C-3.36. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds								Cryptosiphonia woodii (A)								Endocladia muricata (P)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	1	3	0.00	0.00	5	0.54	0.54	1.8	-	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.54	0.54	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	2	3	9.00	9.00	6	0.23	0.23	0.9	+	0.496	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			9.00	9.00		0.23	0.23	+				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z

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

Site Pair	MVD	Gloiopeltis furcata (A)								Total Neorhodomela/Rhodomela (P)								Neorhodomela/Rhodomela spp. (P) (b)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.54	0.54	1.8	-	0.374	3	0.00	0.00	5	0.54	0.54	1.8	-	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.54	0.54		-			0.00	0.00		0.54	0.54		-	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	9.00	9.00	6	0.23	0.23	0.9	+	0.496	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			9.00	9.00		0.23	0.23		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z

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

Table C-3.36. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. September 1989. (Continued.)

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	2	3	9.00	9.00	6	0.23	0.23	0.9	+	0.496	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			9.00	9.00		0.23	0.23		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			*0.00*	*0.00*		*0.00*	*0.00*		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			*0.00*	*0.00*		*0.00*	*0.00*		o			*0.00*	*0.00*		*0.00*	*0.00*		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

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

Table C-3.36. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. September 1989. (Continued.)

		Halosaccion glandiforme (A)																											
Site Pair	MTD	N	C	SE	N	C	SE	CV	D	P		N	C	SE	N	C	SE	CV	D	P		N	C	SE	N	C	SE	CV	D	P
2397C/20809	1	3	0.00	0.00	5	0.00	0.00	-	o	1.000																			
Habitat Means			0.00	0.00		0.00	0.00		o																				
Fisher's		Power		---	Power-50%		---	P-value		---	z	Power		---	Power-50%		---	P-value				Power		---	Power-50%		---	P-value		
Stouffer's		Power		---	Power-50%		---	P-value		---		Power		---	Power-50%		---	P-value				Power		---	Power-50%		---	P-value		
P15.1C/P15.1	2	0	--	--	0	--	--	-		---																			
2397C/20809	2	3	0.00	0.00	6	0.00	0.00	-	o	1.000																			
Habitat Means			0.00	0.00		0.00	0.00		o																				
Fisher's		Power		---	Power-50%		---	P-value		---	z	Power		---	Power-50%		---	P-value				Power		---	Power-50%		---	P-value		
Stouffer's		Power		---	Power-50%		---	P-value		---		Power		---	Power-50%		---	P-value				Power		---	Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---																			
2397C/20809	3	3	0.00	0.00	3	0.00	0.00	-	o	1.000																			
Habitat Means			0.00	0.00		0.00	0.00		o																				
Fisher's		Power		---	Power-50%		---	P-value		---	z	Power		---	Power-50%		---	P-value				Power		---	Power-50%		---	P-value		
Stouffer's		Power		---	Power-50%		---	P-value		---		Power		---	Power-50%		---	P-value				Power		---	Power-50%		---	P-value		

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

Table C-3.37. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)														Perennials (P)								
																	N	C	SE	N	O	SE	CV	D	P
2397C/20809	1	6	2.33	1.23	6	0.33	0.33	0.7	+	0.247	6	502.56	412.91	6	0.88	0.88	1.2	+	0.067	6	497.92	408.80	6				
Habitat Means			1.58	0.89		0.33	0.33		-			364.03	278.03		0.88	0.88		+			361.71	275.97		0.83	0.83		+	
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	5	0.40	0.40	0	--	--	-		---	5	163.38	163.38	0	--	--	-		---	5	163.08	163.08	0	--	--	-		
2397C/20809	2	5	1.80	0.66	5	1.40	1.40	0.7	+	0.803	5	777.82	462.79	5	25.16	25.16	0.8	+	0.051	5	777.02	462.83	5	24.56	24.56	0.8	+	
Habitat Means			1.10	0.53		1.40	1.40		+			470.60	313.09		25.16	25.16		-			470.05	312.95		24.56	24.56		-	
Fisher's		Power	---		Power-50%		---	P-value		---	yz	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		
2397C/20809	3	6	3.67	1.69	3	3.33	1.76	0.5	+	0.906	6	156.90	81.77	3	379.48	277.79	0.5	-	0.341	6	95.67	74.77	3	339.94	240.66	0.6	-	
Habitat Means			3.67	1.69		3.33	1.76		+			156.90	81.77		379.48	277.79		-			95.67	74.77		339.94	240.66		-	
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		

(a) 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.

			Annuals (A)								Ephemerals (AE)														
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---									
2397C/20809	1	6	4.64	4.12	6	0.05	0.05	1.2	+	0.396	6	4.17	4.17	6	0.05	0.05	1.4	-	0.771									
Habitat Means			2.32	2.06		0.05	0.05		+			2.09	2.09		0.05	0.05		+										
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	5	0.30	0.30	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---									
2397C/20809	2	5	0.80	0.80	5	0.60	0.60	1.0	+	0.845	5	0.44	0.44	5	0.58	0.58	1.0	-	0.851									
Habitat Means			0.55	0.55		0.60	0.60		+			0.22	0.22		0.58	0.58		-										
Fisher's		Power	---		Power-50%		---	P-value		---	yz	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--		0														
2397C/20809	3	6	61.23	42.49	3	39.54	38.05	0.9	+	0.756	6	0.62	0.39	3	38.53	38.53	0.9	-	0.910									
Habitat Means			61.23	42.49		39.54	38.05		+			0.62	0.39		38.53	38.53		-										
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		

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

Table C-3.38. Algal Biomass. Chlorophyta. Prince William Sound. Estuarine. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens									Kornmannia leptoderma (AE)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.20	0.20	6	0.00	0.00	1.4	-	0.363	6	0.20	0.20	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.00	0.00		+			0.10	0.10		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	2	5	0.00	0.00	5	0.01	0.01	1.3	-	0.815	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.01	0.01		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	6	0.67	0.42	3	0.00	0.00	1.2	+	0.171	6	0.15	0.15	3	0.00	0.00	2.0	+	0.363	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.67	0.42		0.00	0.00		+			0.15	0.15		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)									Ulva spp. (AE)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	-	--	-		---	6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.20	0.20	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.15	0.15	3	0.00	0.00	2.0	+	0.363	6	0.15	0.15	3	0.00	0.00	2.0	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.15	0.15		0.00	0.00		+			0.15	0.15		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
[illegible]		[illegible]			[illegible]		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

Table C-3.38. Algal Biomass. Chlorophyta. Prince William Sound. Estuarine. June 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens									Acrosiphonia sp. (A)										Total Chaetomorpha/Rhizoclonium (A)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---		6	0.00	0.00	0	--	--	-		---	
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---		5	0.00	0.00	0	--	--	-		---	
2397C/20809	2	5	0.00	0.00	5	0.01	0.01	1.2	-	0.827	5	0.00	0.00	5	0.01	0.01	1.4	-	0.374		5	0.00	0.00	5	0.01	0.01	1.4	-	0.374	
Habitat Means			0.00	0.00		0.01	0.01		-			0.00	0.00		0.01	0.01		-				0.00	0.00		0.01	0.01		-		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
2397C/20809	3	6	0.52	0.34	3	0.00	0.00	1.3	+	0.183	6	0.05	0.04	3	0.00	0.00	1.9	+	0.344		6	0.00	0.00	3	0.00	0.00	2.0	+	0.363	
Habitat Means			0.52	0.34		0.00	0.00		+			0.05	0.05		0.00	0.00		+				0.00	0.00		0.00	0.00		+		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

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

Site Pair	MVD	Chaetomorpha/Rhizoclonium spp. (A) (b)									Cladophora sp. (AE)										Morphological Group - Tubular and Saccate Greens									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---		6	0.00	0.00	0	--	--	-		---	
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363		6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+				0.00	0.00		0.00	0.00		+		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---		5	0.00	0.00	0	--	--	-		---	
2397C/20809	2	5	0.00	0.00	5	0.01	0.01	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	1.4	+	0.374		5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	
Habitat Means			0.00	0.00		0.01	0.01		-			0.00	0.00		0.00	0.00		+				0.00	0.00		0.00	0.00		-		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
2397C/20809	3	6	0.00	0.00	3	0.00	0.00	2.0	-	0.363	6	0.47	0.32	3	0.00	0.00	1.3	+	0.203		6	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		+			0.47	0.32		0.00	0.00		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

(b) Chaetomorpha melagonium not included.

Table C-3.38. Algal Biomass. Chlorophyta. Prince William Sound. Estuarine. June 1990. (Continued.)

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-			6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+		6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-			5	0.00	0.00	0	--	--	-		---
2397C/20809	2	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o		5	0.00	0.00	5	0.00	0.00	1.4	-	0.374
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-			0	--	--	0	--	--	-		---
2397C/20809	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o		6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		---	

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

Site Pair	MVD	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---
2397C/20809	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---
2397C/20809	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power	---		Power-50%		---	P-value		---	

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

Table C-3.39. Algal Biomass. Phaeophyta. Prince William Sound. Estuarine. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta									Morphological Group - Bladed Browns										Fucus cottonii (P)									
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	6	225.50	143.14	0	--	--	-		---	6	225.50	143.14	0	--	--	-		---		6	113.33	72.92	0	--	--	-		---	
2397C/20809	1	6	498.79	412.69	6	0.88	0.88	1.2	+	0.068	6	494.35	408.77	6	0.83	0.83	1.2	+	0.067		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			362.14	277.91		0.88	0.88		+			359.93	275.96		0.83	0.83		+				56.67	36.46		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z		Power	---		Power-50%	---	P-value	---		z	yz
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---			
P15.1C/P15.1	2	5	163.08	163.08	0	--	--	-		---	5	163.08	163.08	0	--	--	-		---		5	0.00	0.00	0	--	--	-		---	
2397C/20809	2	5	775.04	460.47	5	25.14	25.14	0.8	+	0.051	5	774.60	460.49	5	24.56	24.56	0.8	+	0.051		5	0.00	0.00	5	0.00	0.00	-	o	1.000	
Habitat Means			469.06	311.78		25.14	25.14		+			468.84	311.79		24.56	24.56		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z		Power	---		Power-50%	---	P-value	---		z	z
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---			
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
2397C/20809	3	6	149.73	81.82	3	318.07	300.45	0.7	-	0.489	6	95.34	74.84	3	278.53	262.40	0.7	-	0.398		6	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			149.73	81.82		318.07	300.45		-			95.34	74.84		278.53	262.40		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z		Power	---		Power-50%	---	P-value	---		z	z
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---			

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

		Fucus gardneri (P)									Morphological Group - Coarse Filamentous Browns										Chordaria flagelliformis (A)									
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	6	112.17	70.95	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---		6	0.00	0.00	0	--	--	-		---	
2397C/20809	1	6	494.35	408.77	6	0.83	0.83	1.2	+	0.067	6	0.47	0.45	6	0.00	0.00	1.3	+	0.342		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			303.26	239.86		0.83	0.83		+			0.23	0.22		0.00	0.00		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z		Power	---		Power-50%	---	P-value	---		z	z
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---			
P15.1C/P15.1	2	5	163.08	163.08	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---		5	0.00	0.00	0	--	--	-		---	
2397C/20809	2	5	774.60	460.49	5	24.56	24.56	0.8	+	0.051	5	0.00	0.00	5	0.00	0.00	-	o	1.000		5	0.00	0.00	5	0.00	0.00	-	o	1.000	
Habitat Means			468.84	311.79		24.56	24.56		+			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z		Power	---		Power-50%	---	P-value	---		z	z
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---			
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
2397C/20809	3	6	95.34	74.84	3	278.53	262.40	0.7	-	0.398	6	54.39	40.70	3	0.01	0.01	1.5	+	0.417		6	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			95.34	74.84		278.53	262.40		-			54.39	40.70		0.01	0.01		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z		Power	---		Power-50%	---	P-value	---		z	z
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---			

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

Table C-3.39. Algal Biomass. Phaeophyta. Prince William Sound. Estuarine. June 1990. (Continued.)

Site Pair	MVD	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon foeniculaceus (A) N	C	E	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	6	34.61	33.00	3	0.00	0.00	1.9	+	0.527	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	34.61	33.00	3	0.00	0.00	1.9	+	0.527
Habitat Means			34.61	33.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			34.61	33.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.47	0.45	6	0.00	0.00	1.3	+	0.342	6	3.97	3.97	6	0.05	0.05	1.4	+	0.773	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.23	0.22		0.00	0.00		+			1.98	1.98		0.05	0.05		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.44	0.44	5	0.58	0.58	1.0	-	0.851	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.22	0.22		0.58	0.58		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	6	19.78	12.85	3	0.00	0.00	1.3	+	0.393	6	0.00	0.00	3	38.53	38.53	0.9	-	0.423	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			19.78	12.85		0.00	0.00		+			0.00	0.00		38.53	38.53		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

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

Table C-3.39. Algal Biomass. Phaeophyta. Prince William Sound. Estuarine. June 1990. (Continued.)

			Pilayella sp. (AE)							Sphacelaria sp. (AE)								Morphological Group - Saccate Browns							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-	---		6	0.00	0.00	0	--	--	-	---		6	0.00	0.00	0	--	--	-	---	
2397C/20809	1	6	3.97	3.97	6	0.05	0.05	1.4	+	0.773	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.98	1.98		0.05	0.05	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-	---		5	0.00	0.00	0	--	--	-	---		5	0.00	0.00	0	--	--	-	---	
2397C/20809	2	5	0.44	0.44	5	0.58	0.58	1.0	-	0.851	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.22	0.22		0.58	0.58	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
P15.1C/P15.1	3	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
2397C/20809	3	6	0.00	0.00	3	38.53	38.53	0.9	-	0.423	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	1.00	1.00	0.9	-	0.423
Habitat Means			0.00	0.00		38.53	38.53	-				0.00	0.00		0.00	0.00		o			0.00	0.00		1.00	1.00		-	
Fisher's		Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

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

			Leathesia difformis (A)							Soranthera ulvoidea (A)															
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-	---		5	0.00	0.00	0	--	--	-	---										
2397C/20809	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
P15.1C/P15.1	3	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---										
2397C/20809	3	6	0.00	0.00	3	0.47	0.47	0.9	-	0.423	6	0.00	0.00	3	0.53	0.53	0.9	-	0.423									
Habitat Means			0.00	0.00		0.47	0.47	-				0.00	0.00		0.53	0.53	-											
Fisher's		Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	z	Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

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

Table C-3.40. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; + = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	3.57	3.39	6	0.00	0.00	1.3	+	0.341	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363
Habitat Means			1.78	1.70		0.00	0.00		+			0.01	0.01		0.00	0.00		-			0.01	0.01		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	5	0.30	0.30	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	2	5	2.78	2.36	5	0.01	0.01	1.2	+	0.176	5	2.78	2.36	5	0.00	0.00	1.2	+	0.303	5	2.42	2.42	5	0.00	0.00	1.4	+	0.374
Habitat Means			1.54	1.33		0.01	0.01		+			1.39	1.18		0.00	0.00		+			1.21	1.21		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	6	6.51	5.69	3	61.41	60.40	0.8	-	0.571	6	0.52	0.52	3	0.00	0.00	1.9	+	0.362	6	0.00	0.00	3	0.00	0.00	2.0	-	0.363
Habitat Means			6.51	5.69		61.41	60.40		-			0.52	0.52		0.00	0.00		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Total Palmaria (A)								Palmaria callophylloides (A)								Porphyra sp. (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			*0.00*	*0.00*		*0.00*	*0.00*		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.36	0.36	5	0.00	0.00	1.4	+	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			*0.00*	*0.00*		*0.00*	*0.00*		o			*0.18*	*0.18*		*0.00*	*0.00*		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.52	0.52	3	0.00	0.00	2.0	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.52	0.52		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.40. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. June 1990. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	3.55	3.39	6	0.00	0.00	1.4	+	0.343	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.78	1.70		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value		---	z	Power ---			Power-50%	---	P-value		---	z	Power ---			Power-50%	---	P-value		---	z
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	2	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value		---	z	Power ---			Power-50%	---	P-value		---	z	Power ---			Power-50%	---	P-value		---	z
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	6	0.77	0.58	3	61.41	60.40	0.8	-	0.283	6	0.25	0.25	3	0.00	0.00	2.0	+	0.363	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.77	0.58		61.41	60.40		-			0.25	0.25		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value		---	z	Power ---			Power-50%	---	P-value		---	z	Power ---			Power-50%	---	P-value		---	z
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	

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

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.55	3.39	6	0.00	0.00	1.4	+	0.343	6	3.55	3.39	6	0.00	0.00	1.4	+	0.343
Habitat Means			0.00	0.00		0.00	0.00		o			1.78	1.70		0.00	0.00		+			1.78	1.70		0.00	0.00		+	
Fisher's		Power ---			Power-50%	---	P-value		---	z	Power ---			Power-50%	---	P-value		---	z	Power ---			Power-50%	---	P-value		---	z
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power ---			Power-50%	---	P-value		---	z	Power ---			Power-50%	---	P-value		---	z	Power ---			Power-50%	---	P-value		---	z
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	6	0.18	0.18	3	0.00	0.00	1.9	-	0.996	6	0.33	0.33	3	61.40	60.40	0.9	-	0.124	6	0.33	0.33	3	61.40	60.40	0.9	-	0.124
Habitat Means			0.18	0.18		0.00	0.00		-			0.33	0.33		61.40	60.40		-			0.33	0.33		61.40	60.40		-	
Fisher's		Power ---			Power-50%	---	P-value		---	z	Power ---			Power-50%	---	P-value		---	z	Power ---			Power-50%	---	P-value		---	z
Stouffer's		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---		Power ---			Power-50%	---	P-value		---	

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

Table C-3.40. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. June 1990. (Continued.)

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.30	0.30	0	--	--	-		---
2397C/20809	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.01	0.01	1.1	-	0.545
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.15	0.15		0.01	0.01		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	5.22	5.22	3	0.00	0.00	2.0	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			5.22	5.22		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	5	0.30	0.30	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---	5	0.00	0.00	0	--	--	-		---
2397C/20809	2	5	0.00	0.00	5	0.01	0.01	1.1	-	0.545	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.15	0.15		0.01	0.01		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	6	5.22	5.22	3	0.00	0.00	2.0	+	0.363	6	0.00	0.00	3	0.00	0.00	-	o	1.000	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			5.22	5.22		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

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

Table C-3.40. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. June 1990. (Continued.)

		Halosaccion glandiforme (A)																											
Site Pair	MTD	N	C	SE	N	C	SE	CV	D	P		N	C	SE	N	C	SE	CV	D	P		N	C	SE	N	C	SE	CV	D	P
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																			
Habitat Means			0.00	0.00		0.00	0.00		o																				
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	5	0.00	0.00	0	--	--	-		---																			
2397C/20809	2	5	0.00	0.00	5	0.00	0.00	-	o	1.000																			
Habitat Means			0.00	0.00		0.00	0.00		o																				
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---																			
2397C/20809	3	6	0.00	0.00	3	0.00	0.00	-	o	1.000																			
Habitat Means			0.00	0.00		0.00	0.00		o																				
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		

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

Table C-3.41. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Estuarine. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	1.33	1.33	4	0.00	0.00	1.2	+	0.423	3	10.67	10.67	4	0.00	0.00	1.2	-	0.423	3	10.67	10.67	4	0.00	0.00	1.2	+	0.423
2397C/20809	1	6	1.17	0.65	6	0.00	0.00	0.8	+	0.135	6	845.62	819.40	6	0.00	0.00	1.4	-	0.349	6	844.28	817.97	6	0.00	0.00	1.4	+	0.349
Habitat Means			1.25	0.99		0.00	0.00		+			428.14	415.04		0.00	0.00		-			427.42	414.32		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.075	Power	*0.028*		Power-50%		*0.023*	P-value		0.159	Power	*0.024*		Power-50%		*0.024*	P-value		0.159
Stouffer's		Power	---		Power-50%		0.273	P-value		0.052	Power	0.078		Power-50%		0.049	P-value		0.110	Power	0.076		Power-50%		0.047	P-value		0.110
P15.1C/P15.1	2	3	0.67	0.67	5	0.00	0.00	1.0	+	0.423	3	2.40	2.40	5	0.00	0.00	1.0	+	0.423	3	2.40	2.40	5	0.00	0.00	1.0	-	0.423
2397C/20809	2	5	2.20	0.80	6	0.00	0.00	0.5	+	0.051	5	1095.81	798.49	6	0.00	0.00	0.9	-	0.242	5	1095.81	798.49	6	0.00	0.00	0.9	-	0.242
Habitat Means			1.43	0.73		0.00	0.00		+			549.11	400.45		0.00	0.00		+			549.10	400.45		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.034	Power	0.125		Power-50%		0.053	P-value		0.119	Power	0.122		Power-50%		0.122	P-value		0.119
Stouffer's		Power	---		Power-50%		0.361	P-value		0.026	Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.082
P15.1C/P15.1	3	0	--	--	2	1.00	1.00	-		---	0	--	--	2	3.40	3.40	-		---	0	--	--	2	3.40	3.40	-		---
2397C/20809	3	5	3.20	1.24	5	1.00	0.63	0.5	-	0.153	5	292.45	243.25	5	863.86	545.72	0.7	-	0.367	5	271.81	247.40	5	862.32	544.51	0.7	-	0.352
Habitat Means			3.20	1.24		1.00	0.82		-			292.45	243.25		433.63	274.56		-			271.81	247.40		432.86	273.95		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P value		---	Power	---		Power-50%		---	P-value		---

(a) 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.

		Annuals (A)								Ephemerals (AE)															
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	1.2	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000									
2397C/20809	1	6	1.44	1.43	6	0.00	0.00	1.4	-	0.360	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.72	0.72		0.00	0.00		.			0.00	0.00		0.00	0.00		o										
Fisher's		Power	0.007		Power-50%		0.004	P-value		0.162	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.027		Power-50%		0.017	P-value		0.112	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000									
2397C/20809	2	5	0.01	0.00	6	0.00	0.00	0.8	+	0.208	5	0.00	0.00	6	0.00	0.00	1.3	-	0.374									
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		-										
Fisher's		Power	0.048		Power-50%		0.048	P-value		0.206	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.014		Power-50%		0.024	P-value		0.187	Power	---		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
2397C/20809	3	5	20.64	14.30	5	1.54	1.54	0.9	+	0.108	5	0.87	0.87	5	1.54	1.54	1.0	-	0.713									
Habitat Means			20.64	14.30		0.77	0.77		+			0.87	0.87		0.77	0.77		-										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

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

Table C-3.42. Algal Biomass. Chlorophyta. Prince William Sound. Estuarine. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00		- o	1.000	3	0.00	0.00	4	0.00	0.00		- o	1.000	3	0.00	0.00	4	0.00	0.00		- o	1.000
2397C/20809	1	6	0.58	0.58	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.29	0.29		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---		P-value	0.309	Power	---		Power-50%		---		P-value	0.597	Power	---		Power-50%		---		P-value	0.597
Stouffer's	Power		---		Power-50%		---		P-value	0.260	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00		- o	1.000	3	0.00	0.00	5	0.00	0.00		- o	1.000	3	0.00	0.00	5	0.00	0.00		- o	1.000
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---		P-value	0.315	Power	---		Power-50%		---		P-value	0.597	Power	---		Power-50%		---		P-value	0.597
Stouffer's	Power		---		Power-50%		---		P-value	0.265	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00		-	---	0	--	--	2	0.00	0.00		-	---	0	--	--	2	0.00	0.00		-	---
2397C/20809	3	5	1.79	1.09	5	0.00	0.00	0.9	+	0.178	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
Habitat Means			1.79	1.09		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z
Stouffer's	Power		---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00		- o	1.000	3	0.00	0.00	4	0.00	0.00		- o	1.000	3	0.00	0.00	4	0.00	0.00		- o	1.000
2397C/20809	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---		P-value	0.597	Power	---		Power-50%		---		P-value	0.597	Power	---		Power-50%		---		P-value	0.597
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00		- o	1.000	3	0.00	0.00	5	0.00	0.00		- o	1.000	3	0.00	0.00	5	0.00	0.00		- o	1.000
2397C/20809	2	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---		P-value	0.597	Power	---		Power-50%		---		P-value	0.597	Power	---		Power-50%		---		P-value	0.597
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00		-	---	0	--	--	2	0.00	0.00		-	---	0	--	--	2	0.00	0.00		-	---
2397C/20809	3	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000	5	0.00	0.00	5	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z	Power	---		Power-50%		---		P-value	--- z
Stouffer's	Power		---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---	Power	---		Power-50%		---		P-value	---

(b) Genera not separated.

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

Table C-3.42. Algal Biomass. Chlorophyta. Prince William Sound. Estuarine. August 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens									Acrosiphonia sp. (A)									Total Chaetomorpha/Rhizoclonium (A)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.58	0.58	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.58	0.58	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.29	0.29		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.29	0.29		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.260	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.260
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	1.79	1.09	5	0.00	0.00	0.9	+	0.178	5	0.92	0.92	5	0.00	0.00	1.4	+	0.373	5	0.01	0.01	5	0.00	0.00	1.4	+	0.374
Habitat Means			1.79	1.09		0.00	0.00		+			0.92	0.92		0.00	0.00		+			0.01	0.01		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Chaetomorpha/Rhizoclonium spp. (A) (b)									Cladophora sp. (AE)									Morphological Group - Tubular and Saccate Greens								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.58	0.58	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.29	0.29		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.260	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	0.01	0.01	5	0.00	0.00	1.4	+	0.374	5	0.86	0.86	5	0.00	0.00	1.4	+	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.86	0.86		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Chaetomorpha melagonium not included.

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

Table C-3.42. Algal Biomass. Chlorophyta. Prince William Sound. Estuarine. August 1990. (Continued.)

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Site Pair	MVD	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000																		
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000																		
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---																		
2397C/20809	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.43. Algal Biomass. Phaeophyta. Prince William Sound. Estuarine. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus cottonii (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	9.94	9.94	4	0.00	0.00	1.2	+	0.423	3	9.93	9.93	4	0.00	0.00	1.2	+	0.423	3	5.67	5.67	4	0.00	0.00	1.2	+	0.423
2397C/20809	1	6	844.22	818.00	6	0.00	0.00	1.4	+	0.349	6	843.36	817.16	6	0.00	0.00	1.4	+	0.349	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			427.08	413.97		0.00	0.00		+			426.65	413.54		0.00	0.00		+			2.83	2.83		0.00	0.00		+	
Fisher's		Power	0.025		Power-50%		0.022	P-value		0.159	Power	0.021		Power-50%		0.020	P-value		0.159	Power	---		Power-50%		---	P-value		0.343
Stouffer's		Power	0.073		Power-50%		0.055	P-value		0.110	Power	0.071		Power-50%		0.057	P-value		0.110	Power	---		Power-50%		---	P-value		0.285
P15.1C/P15.1	2	3	2.40	2.40	5	0.00	0.00	1.0	+	0.423	3	2.40	2.40	5	0.00	0.00	1.0	-	0.423	3	1.70	1.70	5	0.00	0.00	1.0	+	0.423
2397C/20809	2	5	1091.12	799.64	6	0.00	0.00	0.9	+	0.244	5	1091.12	799.64	6	0.00	0.00	0.9	-	0.244	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374
Habitat Means			546.76	401.02		0.00	0.00		+			546.76	401.02		0.00	0.00		+			0.85	0.85		0.00	0.00		+	
Fisher's		Power	0.112		Power-50%		0.052	P-value		0.120	Power	0.111		Power-50%		0.047	P-value		0.120	Power	---		Power-50%		---	P-value		0.167
Stouffer's		Power	---		Power-50%		0.101	P-value		0.082	Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.116
P15.1C/P15.1	3	0	--	--	2	0.40	0.40	-		---	0	--	--	2	0.40	0.40	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	290.06	242.18	5	863.86	545.72	0.7	-	0.365	5	271.36	246.95	5	862.32	544.51	0.7	-	0.352	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			290.06	242.18		432.13	273.06		-			271.36	246.95		431.36	272.45		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Fucus gardneri (P)								Morphological Group - Coarse Filamentous Browns								Chordaria flagelliformis (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	4.27	4.27	4	0.00	0.00	1.2	+	0.423	3	0.00	0.00	4	0.00	0.00	1.2	-	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	843.36	817.16	6	0.00	0.00	1.4	+	0.349	6	0.86	0.85	6	0.00	0.00	1.4	-	0.358	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			423.81	410.71		0.00	0.00		+			0.43	0.43		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.027		Power-50%		0.021	P-value		0.159	Power	0.008		Power-50%		0.007	P-value		0.162	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.072		Power-50%		0.055	P-value		0.110	Power	0.032		Power-50%		0.029	P-value		0.112	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	3	0.70	0.70	5	0.00	0.00	1.0	+	0.423	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	5	1091.12	799.64	6	0.00	0.00	0.9	+	0.244	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			545.91	400.17		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.117		Power-50%		0.055	P-value		0.120	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		0.104	P-value		0.082	Power	---		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	2	0.40	0.40	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	271.36	246.95	5	862.32	544.51	0.7	-	0.352	5	18.69	13.74	5	0.00	0.00	1.0	+	0.245	5	0.50	0.50	5	0.00	0.00	1.4	+	0.374
Habitat Means			271.36	246.95		431.36	272.45		-			18.69	13.74		0.00	0.00		+			0.50	0.50		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.43. Algal Biomass. Phaeophyta. Prince William Sound. Estuarine. August 1990. (Continued.)

Site Pair	MVD	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value	0.597			Power ---			Power-50%	---	P-value	0.597			Power ---			Power-50%	---	P-value	0.597		
Stouffer's		Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500		
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value	0.597			Power ---			Power-50%	---	P-value	0.597			Power ---			Power-50%	---	P-value	0.597		
Stouffer's		Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500		
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	18.18	13.72	5	0.00	0.00	1.1	+	0.256	5	4.02	4.02	5	0.00	0.00	1.4	+	0.374	5	14.16	14.16	5	0.00	0.00	1.4	+	0.374
Habitat Means			18.18	13.72		0.00	0.00		+			4.02	4.02		0.00	0.00		+			14.16	14.16		0.00	0.00		+	
Fisher's		Power ---			Power-50%	---	P-value	---	z		Power ---			Power-50%	---	P-value	---	z		Power ---			Power-50%	---	P-value	---	z	
Stouffer's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		

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

Site Pair	MVD	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	1.2	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00		o	1.000
2397C/20809	1	6	0.86	0.85	6	0.00	0.00	1.4	+	0.358	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.43	0.43		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power 0.008			Power-50%	0.006	P-value	0.162			Power ---			Power-50%	---	P-value	0.597			Power ---			Power-50%	---	P-value	0.597		
Stouffer's		Power 0.033			Power-50%	0.026	P-value	0.112			Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500		
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	1.3	-	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value	0.315			Power ---			Power-50%	---	P-value	0.597			Power ---			Power-50%	---	P-value	0.597		
Stouffer's		Power ---			Power-50%	---	P-value	0.265			Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500		
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	0.01	0.01	5	0.00	0.00	1.4	+	0.374	5	0.01	0.01	5	1.54	1.54	1.4	-	0.484	5	0.00	0.00	5	0.00	0.00	1.4	+	0.374
Habitat Means			0.01	0.01		0.00	0.00		+			0.01	0.01		0.77	0.77		-			0.00	0.00		0.00	0.00		+	
Fisher's		Power ---			Power-50%	---	P-value	---	z		Power ---			Power-50%	---	P-value	---	z		Power ---			Power-50%	---	P-value	---	z	
Stouffer's		Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---			Power ---			Power-50%	---	P-value	---		

(a) Genera not separated.

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

Table C-3.43. Algal Biomass. Phaeophyta. Prince William Sound. Estuarine. August 1990. (Continued.)

Site Pair	MVD	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	0.01	0.01	5	1.54	1.54	1.4	-	0.474	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.77	0.77		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000									
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
2397C/20809	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

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

Table C-3.44. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.73	0.73	4	0.00	0.00	1.2	+	0.423	3	0.00	0.00	4	0.00	0.00	---	o	1.000	3	0.00	0.00	4	0.00	0.00	---	o	1.000
2397C/20809	1	6	0.82	0.82	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	---	o	1.000	6	0.00	0.00	6	0.00	0.00	---	o	1.000
Habitat Means			0.78	0.78		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.164	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.113	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	---	o	1.000	3	0.00	0.00	5	0.00	0.00	---	o	1.000
2397C/20809	2	5	4.69	3.78	6	0.00	0.00	1.0	-	0.283	5	3.90	3.90	6	0.00	0.00	1.3	-	0.374	5	3.90	3.90	6	0.00	0.00	1.3	+	0.374
Habitat Means			2.34	1.89		0.00	0.00		-			1.95	1.95		0.00	0.00		+			1.95	1.95		0.00	0.00		-	
Fisher's		Power	0.002		Power-50%		0.004	P-value		0.258	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.315
Stouffer's		Power	0.001		Power-50%		0.000	P-value		0.224	Power	---		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		0.265
P15.1C/P15.1	3	0	--	--	2	3.00	3.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	0.60	0.44	5	0.00	0.00	1.0	+	0.286	5	0.00	0.00	5	0.00	0.00	---	o	1.000	5	0.00	0.00	5	0.00	0.00	---	o	1.000
Habitat Means			0.60	0.44		1.50	1.50		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- yz	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Total Palmaria (A)								Palmaria callophylloides (A)								Porphyra sp. (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	---	o	1.000	3	0.00	0.00	4	0.00	0.00	---	o	1.000	3	0.00	0.00	4	0.00	0.00	---	o	1.000
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	---	o	1.000	6	0.00	0.00	6	0.00	0.00	---	o	1.000	6	0.00	0.00	6	0.00	0.00	---	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	---	o	1.000	3	0.00	0.00	5	0.00	0.00	---	o	1.000	3	0.00	0.00	5	0.00	0.00	---	o	1.000
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	---	o	1.000	5	0.00	0.00	6	0.00	0.00	---	o	1.000	5	0.00	0.00	6	0.00	0.00	---	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	---	o	1.000	5	0.00	0.00	5	0.00	0.00	---	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.44. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. August 1990. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.73	0.73	4	0.00	0.00	1.2	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.82	0.82	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.78	0.78		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			0.164	Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597
Stouffer's		Power ---			Power-50%	---	P-value			0.113	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	5	0.78	0.78	6	0.00	0.00	1.3	+	0.373	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.39	0.39		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power 0.000			Power-50%	0.000	P-value			0.314	Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.597
Stouffer's		Power 0.000			Power-50%	0.000	P-value			0.264	Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.500
P15.1C/P15.1	3	0	--	--	2	3.00	3.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	0.45	0.45	5	0.00	0.00	1.4	+	0.637	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.45	0.45		1.50	1.50		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value			--- yz	Power ---			Power-50%	---	P-value			--- z	Power ---			Power-50%	---	P-value			--- z
Stouffer's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---

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

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.73	0.73	4	0.00	0.00	1.2	+	0.423	3	0.73	0.73	4	0.00	0.00	1.2	+	0.423
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.82	0.82	6	0.00	0.00	1.4	+	0.363	6	0.82	0.82	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.78	0.78		0.00	0.00		+			0.78	0.78		0.00	0.00		+	
Fisher's		Power ---			Power-50%	---	P-value			0.597	Power ---			Power-50%	---	P-value			0.164	Power ---			Power-50%	---	P-value			0.164
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power ---			Power-50%	---	P-value			0.113	Power ---			Power-50%	---	P-value			0.113
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.78	0.78	6	0.00	0.00	1.3	-	0.373	5	0.78	0.78	6	0.00	0.00	1.3	+	0.373
Habitat Means			0.00	0.00		0.00	0.00		o			0.39	0.39		0.00	0.00		+			0.39	0.39		0.00	0.00		+	
Fisher's		Power ---			Power-50%	---	P-value			0.597	Power 0.000			Power-50%	0.000	P-value			0.314	Power 0.001			Power-50%	0.001	P-value			0.314
Stouffer's		Power ---			Power-50%	---	P-value			0.500	Power 0.000			Power-50%	0.000	P-value			0.264	Power 0.000			Power-50%	0.000	P-value			0.264
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	3.00	3.00	-		---	0	--	--	2	3.00	3.00	-		---
2397C/20809	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.45	0.45	5	0.00	0.00	1.4	+	0.637	5	0.45	0.45	5	0.00	0.00	1.4	-	0.637
Habitat Means			0.00	0.00		0.00	0.00		o			0.45	0.45		1.50	1.50		+			0.45	0.45		1.50	1.50		+	
Fisher's		Power ---			Power-50%	---	P-value			--- z	Power ---			Power-50%	---	P-value			--- yz	Power ---			Power-50%	---	P-value			--- yz
Stouffer's		Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---	Power ---			Power-50%	---	P-value			---

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

Table C-3.44. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. August 1990. (Continued.)

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.315
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.265
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.01	0.01	5	0.00	0.00	1.4	+	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.01	0.01		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
2397C/20809	3	5	0.01	0.01	5	0.00	0.00	1.4	+	0.374	5	0.14	0.14	5	0.00	0.00	1.4	+	0.374	5	0.14	0.14	5	0.00	0.00	1.4	-	0.374
Habitat Means			0.01	0.01		0.00	0.00		+			0.14	0.14		0.00	0.00		+			0.14	0.14		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

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

Table C-3.44. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. August 1990. (Continued.)

		Halosaccion glandiforme (A)																											
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
[illegible]	1	5	[illegible]	[illegible]	7	[illegible]	[illegible]	[illegible]		[illegible]																			
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																			
Habitat Means			0.00	0.00		0.00	0.00		o																				
Fisher's	Power		---		Power-50%		---	P-value		0.597	Power		---		Power-50%		---	P-value			Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value			Power		---		Power-50%		---	P-value	
P15.1C/P15.1	2	3	0.00	0.00	5	0.00	0.00	-	o	1.000																			
2397C/20809	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000																			
Habitat Means			0.00	0.00		0.00	0.00		o																				
Fisher's	Power		---		Power-50%		---	P-value		0.597	Power		---		Power-50%		---	P-value			Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value			Power		---		Power-50%		---	P-value	
P15.1C/P15.1	3	0	--	--	2	0.00	0.00	-		---																			
2397C/20809	3	5	0.14	0.14	5	0.00	0.00	1.4	+	0.374																			
Habitat Means			0.14	0.14		0.00	0.00		+																				
Fisher's	Power		---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value			Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			Power		---		Power-50%		---	P-value	

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

Table C-3.45. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Algal Taxa Richness (a) N	C	SE	N	O	SE	CV	D	P	Total Algae N	C	SE	N	O	SE	CV	D	P	Perennials (P) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	2.00	2.00	4	0.50	0.29	1.0	+	0.420	3	384.97	384.97	4	0.73	0.57	1.2	-	0.897	3	384.57	384.57	4	0.60	0.60	1.2	+	0.616
2397C/20809	1	6	4.33	2.12	6	0.83	0.83	0.6	+	0.156	6	490.90	300.23	6	9.36	9.36	0.8	+	0.015	6	485.16	296.06	6	9.35	9.35	0.8	+	0.015
Habitat Means			3.17	2.06		0.67	0.56		+			437.94	342.60		5.04	4.96		+			434.87	340.31		4.98	4.98		+	
Fisher's		Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		0.023	Power	---		Power-50%		---	P-value		0.016
Stouffer's		Power	---		Power-50%		0.187	P-value		0.058	Power	---		Power-50%		---	P-value		0.035	Power	---		Power-50%		---	P-value		0.019
P15.1C/P15.1	2	4	0.00	0.00	5	2.60	1.21	0.7	-	0.098	4	0.00	0.00	5	17.12	6.51	0.6	-	0.058	4	0.00	0.00	5	6.13	4.32	1.1	-	0.229
2397C/20809	2	6	7.00	0.63	6	3.50	1.36	0.2	+	0.042	6	3267.80	785.90	6	340.27	193.83	0.3	+	0.062	6	3230.69	773.84	6	320.92	189.77	0.3	+	0.057
Habitat Means			3.50	0.32		3.05	1.28		+			1633.90	392.95		178.70	100.17		-			1615.34	386.92		163.53	97.04		+	
Fisher's		Power	---		Power-50%		---	P-value		0.098x	Power	0.019		Power-50%		0.299	P-value		0.129xy	Power	0.068		Power-50%		0.068	P-value		0.118
Stouffer's		Power	0.001		Power-50%		0.997	P-value		0.394	Power	0.001		Power-50%		0.217	P-value		0.492	Power	0.002		Power-50%		0.220	P-value		0.310
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	9.00	1.00	5	6.00	3.48	0.5	+	0.630	2	656.66	279.74	5	325.52	196.21	0.5	-	0.400	2	355.10	282.20	5	213.44	133.94	0.6	-	0.621
Habitat Means			9.00	1.00		6.00	3.48		+			656.66	279.74		325.52	196.21		+			355.10	282.20		213.44	133.94		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) 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.

Site Pair	MVD	Annuals (A) N	C	SE	N	O	SE	CV	D	P	Ephemerals (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.41	0.41	4	0.13	0.13	1.0	+	0.499	3	0.01	0.01	4	0.13	0.13	1.6	-	0.903									
2397C/20809	1	6	5.74	4.19	6	0.01	0.01	1.0	+	0.171	6	1.41	1.00	6	0.00	0.00	1.0	+	0.149									
Habitat Means			3.07	2.30		0.07	0.07		.			0.71	0.50		0.07	0.07		+										
Fisher's		Power	0.018		Power-50%		0.012	P-value		0.103	Power	0.016		Power-50%		0.008	P-value		0.172	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		0.031	P-value		0.074	Power	0.039		Power-50%		0.032	P-value		0.175	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	4	0.00	0.00	5	10.99	6.54	0.9	-	0.168	4	0.00	0.00	5	10.30	5.96	0.9	-	0.159									
2397C/20809	2	6	37.12	18.44	6	19.35	11.01	0.5	+	0.427	6	27.70	16.94	6	12.57	10.74	0.7	-	0.468									
Habitat Means			18.56	9.22		15.17	8.78		-			13.85	8.47		11.44	8.35		-										
Fisher's		Power	0.050		Power-50%		0.080	P-value		0.246 y	Power	0.003		Power-50%		0.061	P-value		0.231 y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.065		Power-50%		0.038	P-value		0.339	Power	0.008		Power-50%		0.035	P-value		0.314	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
2397C/20809	3	2	301.56	2.46	5	112.08	66.51	0.3	+	0.149	2	196.12	89.10	5	67.89	60.13	0.5	+	0.301									
Habitat Means			301.56	2.46		112.08	66.51		+			196.12	89.10		67.89	60.13		+										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

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

Table C-3.46. Algal Biomass. Chlorophyta. Prince William Sound. Estuarine. June 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	1.2	+	0.423	3	0.00	0.00	4	0.00	0.00	1.2	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	1.67	1.40	6	0.00	0.00	1.2	+	0.171	6	0.41	0.40	6	0.00	0.00	1.4	+	0.185	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.83	0.70		0.00	0.00		+			0.21	0.20		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.090	Power	---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		0.032	P-value		0.062	Power	---		Power-50%		---	P-value		0.066	Power	---		Power-50%		---	P-value		0.250
P15.1C/P15.1	2	4	0.00	0.00	5	1.09	1.04	1.5	-	0.358	4	0.00	0.00	5	0.86	0.86	1.6	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	6	16.62	10.38	6	11.18	11.05	0.8	+	0.727	6	15.61	10.01	6	0.00	0.00	0.9	+	0.043	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			8.31	5.19		6.13	6.05		-			7.81	5.00		0.43	0.43		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.005		Power-50%		0.002	P-value		0.361 y	Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.019		Power-50%		0.001	P-value		0.343	Power	0.000		Power-50%		0.000	P-value		0.211	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	95.97	31.84	5	2.51	1.58	0.2	+	0.095	2	81.40	19.52	5	1.75	1.10	0.2	+	0.087	2	1.35	0.73	5	0.01	0.01	0.4	+	0.026
Habitat Means			95.97	31.84		2.51	1.58		+			81.40	19.52		1.75	1.10		+			1.35	0.73		0.01	0.01		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	1.2	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.40	0.39	6	0.00	0.00	1.4	+	0.185	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.20		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		0.046	P-value		0.066	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	4	0.00	0.00	5	0.86	0.86	1.6	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	6	15.61	10.01	6	0.00	0.00	0.9	+	0.043	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			7.81	5.00		0.43	0.43		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.001		Power-50%		0.000	P-value		0.211	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	74.19	12.94	5	1.74	1.09	0.1	+	0.089	2	5.85	5.85	5	0.00	0.00	0.7	+	0.500	2	5.85	5.85	5	0.00	0.00	0.7	+	0.500
Habitat Means			74.19	12.94		1.74	1.09		+			5.85	5.85		0.00	0.00		+			5.85	5.85		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(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-3.46. Algal Biomass. Chlorophyta. Prince William Sound. Estuarine. June 1991. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens									Acrosiphonia sp. (A)										Total Chaetomorpha/Rhizoclonium (A)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000		3	0.00	0.00	4	0.00	0.00	-	o	1.000	
2397C/20809	1	6	1.23	1.00	6	0.00	0.00	1.1	+	0.277	6	0.21	0.21	6	0.00	0.00	1.4	+	0.656		6	1.02	1.02	6	0.00	0.00	1.4	+	0.363	
Habitat Means			0.62	0.50		0.00	0.00		-			0.10	0.10		0.00	0.00		+				0.51	0.51		0.00	0.00		+		
Fisher's	Power		0.017		Power-50%		0.005	P-value		0.254	Power	---		Power-50%		---	P-value		0.461		Power	---		Power-50%		---	P-value		0.309	
Stouffer's	Power		0.006		Power-50%		0.001	P-value		0.221	Power	---		Power-50%		---	P-value		0.377		Power	---		Power-50%		---	P-value		0.260	
P15.1C/P15.1	2	4	0.00	0.00	5	0.09	0.05	1.0	-	0.193	4	0.00	0.00	5	0.09	0.05	1.0	-	0.193		4	0.00	0.00	5	0.00	0.00	-	o	1.000	
2397C/20809	2	6	1.01	1.00	6	11.18	11.05	1.3	-	0.545	6	1.00	1.00	6	0.00	0.00	1.4	+	0.620		6	0.00	0.00	6	0.16	0.11	1.0	-	0.209	
Habitat Means			0.50	0.50		5.63	5.55		-			0.50	0.50		0.04	0.03		-				0.00	0.00		0.08	0.06		-		
Fisher's	Power		0.051		Power-50%		0.001	P-value		0.122	Power	0.006		Power-50%		0.000	P-value		0.247	y	Power	0.036		Power-50%		0.036	P-value		0.206	
Stouffer's	Power		---		Power-50%		0.000	P-value		0.089	Power	0.022		Power-50%		0.000	P-value		0.284		Power	0.012		Power-50%		---	P-value		0.187	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
2397C/20809	3	2	14.58	12.32	5	0.00	0.00	0.6	+	0.005	2	14.58	12.32	5	0.00	0.00	0.6	+	0.447		2	0.00	0.00	5	0.00	0.00	-	o	1.000	
Habitat Means			14.58	12.32		0.00	0.00		+			14.58	12.32		0.00	0.00		+				0.00	0.00		0.00	0.00		o		
Fisher's	Power		---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

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

Site Pair	MVD	Chaetomorpha/Rhizoclonium spp. (A) (b)									Cladophora sp. (AE)										Morphological Group - Tubular and Saccate Greens									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000		3	0.00	0.00	4	0.00	0.00	-	o	1.000	
2397C/20809	1	6	1.02	1.02	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363		6	0.03	0.03	6	0.00	0.00	1.4	+	0.363	
Habitat Means			0.51	0.51		0.00	0.00		+			0.00	0.00		0.00	0.00		+				0.01	0.01		0.00	0.00		+		
Fisher's	Power		---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309		Power	---		Power-50%		---	P-value		0.309	
Stouffer's	Power		---		Power-50%		---	P-value		0.260	Power	---		Power-50%		---	P-value		0.260		Power	---		Power-50%		---	P-value		0.260	
P15.1C/P15.1	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000		4	0.00	0.00	5	0.14	0.14	1.6	-	0.374	
2397C/20809	2	6	0.00	0.00	6	0.16	0.11	1.0	-	0.209	6	0.00	0.00	6	11.01	10.95	1.4	-	0.444		6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	
Habitat Means			0.00	0.00		0.08	0.06		-			0.00	0.00		5.51	5.47		-				0.00	0.00		0.07	0.07		+		
Fisher's	Power		0.028		Power-50%		---	P-value		0.206	Power	0.001		Power-50%		0.102	P-value		0.355		Power	---		Power-50%		---	P-value		0.430	y
Stouffer's	Power		0.008		Power-50%		---	P-value		0.187	Power	0.000		Power-50%		0.018	P-value		0.294		Power	---		Power-50%		---	P-value		0.494	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
2397C/20809	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	1.3	-	0.178		2	0.00	0.00	5	0.75	0.75	2.1	-	0.374	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-				0.00	0.00		0.75	0.75		-		
Fisher's	Power		---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

(b) Chaetomorpha linkagloium not included.

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

Table C-3.46. Algal Biomass. Chlorophyta. Prince William Sound. Estuarine. June 1991. (Continued.)

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00		-	o 1.000	3	0.00	0.00	4	0.00	0.00		-	o 1.000	3	0.00	0.00	4	0.00	0.00		-	o 1.000
2397C/20809	1	6	0.03	0.03	6	0.00	0.00	1.4	+	0.363	6	0.03	0.03	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.01	0.01		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%		---	P-value		0.309	Power ---			Power-50%		---	P-value		0.309	Power ---			Power-50%		---	P-value		0.597
Stouffer's		Power ---			Power-50%		---	P-value		0.260	Power ---			Power-50%		---	P-value		0.260	Power ---			Power-50%		---	P-value		0.500
P15.1C/P15.1	2	4	0.00	0.00	5	0.14	0.14	1.6	-	0.374	4	0.00	0.00	5	0.14	0.14	1.6	-	0.374	4	0.00	0.00	5	0.00	0.00		-	o 1.000
2397C/20809	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.07	0.07		+			0.00	0.00		0.07	0.07		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power ---			Power-50%		---	P-value		0.430 y	Power ---			Power-50%		---	P-value		0.430 y	Power ---			Power-50%		---	P-value		0.309
Stouffer's		Power ---			Power-50%		---	P-value		0.494	Power ---			Power-50%		---	P-value		0.494	Power ---			Power-50%		---	P-value		0.260
P15.1C/P15.1	3	0 --		--	0	--	--	-		---	0 --		--	0	--	--	-		---	0 --		--	0	--	--	-		---
2397C/20809	3	2	0.00	0.00	5	0.75	0.75	2.1	-	0.374	2	0.00	0.00	5	0.75	0.75	2.1	-	0.374	2	0.00	0.00	5	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.75	0.75		-			0.00	0.00		0.75	0.75		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%		---	P-value		--- z	Power ---			Power-50%		---	P-value		--- z	Power ---			Power-50%		---	P-value		--- z
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Site Pair	MVD	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00		-	o 1.000																		
2397C/20809	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power ---			Power-50%		---	P-value		0.597	Power ---			Power-50%		---	P-value			Power ---			Power-50%		---	P-value		
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value			Power ---			Power-50%		---	P-value		
P15.1C/P15.1	2	4	0.00	0.00	5	0.00	0.00		-	o 1.000																		
2397C/20809	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power ---			Power-50%		---	P-value		0.597	Power ---			Power-50%		---	P-value			Power ---			Power-50%		---	P-value		
Stouffer's		Power ---			Power-50%		---	P-value		0.500	Power ---			Power-50%		---	P-value			Power ---			Power-50%		---	P-value		
P15.1C/P15.1	3	0 --		--	0	--	--	-		---																		
2397C/20809	3	2	0.00	0.00	5	0.00	0.00		-	o 1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power ---			Power-50%		---	P-value		--- z	Power ---			Power-50%		---	P-value			Power ---			Power-50%		---	P-value		
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value			Power ---			Power-50%		---	P-value		

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

Table C-3.47. Algal Biomass. Phaeophyta. Prince William Sound. Estuarine. June 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta									Morphological Group - Bladed Browns									Fucus cottonii (P)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	384.54	384.54	4	0.73	0.57	1.2	+	0.897	3	384.13	384.13	4	0.60	0.60	1.2	+	0.616	3	0.33	0.33	4	0.00	0.00	1.2	+	0.423
2397C/20809	1	6	484.68	294.64	6	7.85	7.85	0.8	+	0.015	6	480.89	292.08	6	7.85	7.85	0.8	+	0.015	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			434.61	339.59		4.29	4.21		+			432.51	338.11		4.23	4.23		-			0.17	0.17		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.022	Power	---		Power-50%		---	P-value		*0.016*	*Power*	---		Power-50%		---	P-value		0.343
Stouffer's		Power	---		Power-50%		0.088	P-value		0.034	Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.285
P15.1C/P15.1	2	4	0.00	0.00	5	15.90	5.75	0.6	-	0.051	4	0.00	0.00	5	6.13	4.32	1.1	-	0.229	4	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	6	3103.72	687.05	6	216.03	183.77	0.3	-	0.002	6	3090.11	684.94	6	214.48	182.29	0.3	+	0.002	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1551.86	343.53		115.96	94.76		+			1545.06	342.47		110.30	93.30		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.009x	Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.597
Stouffer's		*Power*	*0.006*		*Power-50%*		0.184	P-value		0.220	Power	---		Power-50%		---	P-value		0.096	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	551.52	320.12	5	297.32	182.13	0.5	-	0.499	2	355.10	282.20	5	193.06	119.79	0.6	+	0.545	2	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			551.52	320.12		297.32	182.13		+			355.10	282.20		193.06	119.79		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Fucus gardneri (P)									Morphological Group - Coarse Filamentous Browns									Chordaria flagelliformis (A)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	383.80	383.80	4	0.60	0.60	1.2	-	0.616	3	0.40	0.40	4	0.00	0.00	1.2	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	480.89	292.08	6	7.85	7.85	0.8	+	0.015	6	2.81	2.47	6	0.00	0.00	1.2	+	0.268	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			432.35	337.94		4.23	4.23		+			1.61	1.44		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.016	Power	0.066		Power-50%		0.047	P-value		0.129	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		0.088	P-value		0.019	Power	---		Power-50%		---	P-value		0.089	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	4	*0.00*	*0.00*	5	6.13	4.32	1.1	-	0.229	4	0.00	0.00	5	0.46	0.46	1.6	-	0.372	4	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	6	3090.11	684.94	6	214.48	182.29	0.3	+	0.002	6	1.53	0.59	6	0.00	0.00	0.5	+	0.003	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1545.06	342.47		110.30	93.30		+			0.76	0.29		0.23	0.23		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		0.206	P-value		0.096	Power	---		Power-50%		---	P-value		0.072	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	355.10	282.20	5	193.06	119.79	0.6	+	0.545	2	81.70	70.70	5	38.88	37.11	0.8	+	0.580	2	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			355.10	282.20		193.06	119.79		+			81.70	70.70		38.88	37.11		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.47. Algal Biomass. Phaeophyta. Prince William Sound. Estuarine. June 1991. (Continued.)

Site Pair	MVD	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.27	0.26	6	0.00	0.00	1.4	-	0.347	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.27	0.26	6	0.00	0.00	1.4	-	0.347
Habitat Means			0.14	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.14	0.13		0.00	0.00		-	
Fisher's	Power		0.001		Power-50%		0.000	P-value		0.299	Power	---		Power-50%		---	P-value		0.597	Power	0.001		Power-50%		0.001	P-value		0.299
Stouffer's	Power		0.001		Power-50%		0.000	P-value		0.253	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.253
P15.1C/P15.1	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	6	0.04	0.04	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.04	0.04	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.02	0.02		0.00	0.00		-	
Fisher's	Power		---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309
Stouffer's	Power		---		Power-50%		---	P-value		0.260	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.260
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	0.25	0.25	5	0.00	0.00	0.7	+	0.500	2	0.25	0.25	5	0.00	0.00	0.7	+	0.500	2	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.25	0.25		0.00	0.00		+			0.25	0.25		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.40	0.40	4	0.00	0.00	1.2	+	0.423	3	0.00	0.00	4	0.13	0.13	1.6	-	0.840	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	2.54	2.22	6	0.00	0.00	1.2	+	0.269	6	0.97	0.96	6	0.00	0.00	1.4	+	0.357	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.47	1.31		0.00	0.00		+			0.49	0.48		0.07	0.07		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.073		Power-50%		0.047	P-value		0.130	Power	0.007		Power-50%		0.009	P-value		0.339	Power	---		Power-50%		---	P-value		0.597
Stouffer's	Power		---		Power-50%		0.116	P-value		0.089	Power	0.021		Power-50%		0.043	P-value		0.306	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	4	0.00	0.00	5	0.46	0.46	1.6	-	0.372	4	0.00	0.00	5	9.30	5.12	0.9	-	0.143	4	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	6	1.48	0.59	6	0.00	0.00	0.6	+	0.003	6	12.09	7.19	6	1.55	1.49	0.8	-	0.081	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.74	0.29		0.23	0.23		+			6.04	3.60		5.43	3.30		-			0.00	0.00		0.00	0.00		-	
Fisher's	Power		---		Power-50%		---	P-value		0.010	Power	0.029		Power-50%		0.049	P-value		0.161	Power	---		Power-50%		---	P-value		0.309
Stouffer's	Power		---		Power-50%		0.015	P-value		0.073	Power	0.001		Power-50%		0.028	P-value		0.421	Power	---		Power-50%		---	P-value		0.260
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	81.45	70.95	5	38.88	37.11	0.8	+	0.583	2	114.72	108.62	5	65.38	58.81	0.8	-	0.683	2	0.00	0.00	5	0.00	0.00	2.1	-	0.374
Habitat Means			81.45	70.95		38.88	37.11		+			114.72	108.62		65.38	58.81		-			0.00	0.00		0.00	0.00		-	
Fisher's	Power		---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power		---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

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

Table C-3.47. Algal Biomass. Phaeophyta. Prince William Sound. Estuarine. June 1991. (Continued.)

Site Pair	MVD	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	1.2	+	0.423	3	0.00	0.00	4	0.13	0.13	1.7	-	0.391	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.97	0.96	6	0.00	0.00	1.4	+	0.357	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.49	0.48		0.00	0.00		+			0.00	0.00		0.07	0.07		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.010		Power-50%		0.009	P-value		0.162	Power	---		Power-50%		---	P-value		0.325	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.034		Power-50%		0.033	P-value		0.112	Power	---		Power-50%		---	P-value		0.272	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	4	0.00	0.00	5	9.30	5.12	0.9	-	0.143	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	6	12.09	7.19	6	1.55	1.49	0.8	-	0.056	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			6.04	3.60		5.43	3.30		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.049		Power-50%		0.035	P-value		0.121	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.003		Power-50%		0.017	P-value		0.376	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	114.72	108.62	5	65.37	58.81	0.8	+	0.683	2	0.00	0.00	5	0.00	0.00	2.1	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			114.72	108.62		65.37	58.81		+			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000									
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000									
2397C/20809	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
2397C/20809	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

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

Table C-3.48. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. June 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.43	0.43	4	0.00	0.00	1.2	-	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	4.56	4.54	6	1.50	1.50	1.1	+	0.537	6	0.27	0.26	6	0.00	0.00	1.3	+	0.341	6	0.01	0.01	6	0.00	0.00	1.4	+	0.363
Habitat Means			2.50	2.49		0.75	0.75		+			0.14	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	0.002		Power-50%		0.003	P-value		0.219	Power	0.002		Power-50%		0.000	P-value		0.295	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	0.011		Power-50%		0.015	P-value		0.158	Power	0.000		Power-50%		0.000	P-value		0.250	Power	---		Power-50%		---	P-value		0.260
P15.1C/P15.1	2	4	0.00	0.00	5	0.14	0.14	1.6	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	6	147.46	130.61	6	113.06	98.83	0.9	+	0.838	6	18.36	5.92	6	0.00	0.00	0.5	+	0.027	6	11.96	6.07	6	0.00	0.00	0.7	-	0.106
Habitat Means			73.73	65.31		56.60	49.48		-			9.18	2.96		0.00	0.00		+			5.98	3.04		0.00	0.00		+	
Fisher's		Power	0.007		Power-50%		0.040	P-value		0.350 y	Power	---		Power-50%		---	P-value		0.040	Power	0.153		Power-50%		0.153	P-value		0.123
Stouffer's		Power	0.024		Power-50%		0.015	P-value		0.314	Power	---		Power-50%		---	P-value		0.059	Power	0.074		Power-50%		0.061	P-value		0.126
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	9.16	8.54	5	25.69	16.47	1.0	-	0.580	2	4.86	4.23	5	0.00	0.00	0.6	-	0.003	2	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			9.16	8.54		25.69	16.47		-			4.86	4.23		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Total Palmaria (A)								Palmaria callophylloides (A)								Porphyra sp. (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.27	0.26	6	0.00	0.00	1.4	+	0.352
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.13	0.13		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	0.000		Power-50%		0.000	P-value		0.302
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.255
P15.1C/P15.1	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	6.40	5.00	6	0.00	0.00	1.1	+	0.257
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			3.20	2.50		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	0.067		Power-50%		0.067	P-value		0.241
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.028		Power-50%		0.005	P-value		0.211
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	0.00	0.00	5	0.00	0.00	2.1	-	0.374	2	0.00	0.00	5	0.00	0.00	2.1	-	0.374	2	4.86	4.23	5	0.00	0.00	0.6	+	0.456
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-			4.86	4.23		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.48. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. June 1991. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.43	0.43	4	0.00	0.00	1.2	+	0.423	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	4.28	4.27	6	1.50	1.50	1.1	+	0.553	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.35	2.35		0.75	0.75		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		0.003	P-value		0.224	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.009		Power-50%		0.010	P-value		0.162	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	6	129.10	127.94	6	108.03	99.38	1.0	-	0.899	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			64.55	63.97		54.02	49.69		+			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		0.005	P-value		0.560	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.000		Power-50%		0.002	P-value		0.464	Power	---		Power-50%		---	P-value		0.260	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	4.11	4.11	5	24.61	15.51	1.2	-	0.467	2	0.00	0.00	5	0.46	0.29	1.3	-	0.183	2	0.00	0.00	5	0.00	0.00	2.1	-	0.374
Habitat Means			4.11	4.11		24.61	15.51		-			0.00	0.00		0.46	0.29		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.43	0.43	4	0.00	0.00	1.2	+	0.423	3	0.43	0.43	4	0.00	0.00	1.2	-	0.423
2397C/20809	1	6	0.01	0.01	6	0.00	0.00	1.1	+	0.248	6	4.27	4.27	6	1.50	1.50	1.1	+	0.554	6	4.27	4.27	6	1.50	1.50	1.1	+	0.554
Habitat Means			0.00	0.00		0.00	0.00		+			2.35	2.35		0.75	0.75		+			2.35	2.35		0.75	0.75		-	
Fisher's		Power	0.013		Power-50%		0.007	P-value		0.234	Power	---		Power-50%		---	P-value		0.225	Power	---		Power-50%		---	P-value		0.225
Stouffer's		Power	0.005		Power-50%		0.001	P-value		0.207	Power	---		Power-50%		---	P-value		0.162	Power	---		Power-50%		---	P-value		0.162
P15.1C/P15.1	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	6	0.48	0.48	6	1.59	1.05	0.8	-	0.364	6	128.62	128.04	6	106.45	99.65	1.0	-	0.894	6	128.62	128.04	6	106.45	99.65	1.0	-	0.894
Habitat Means			0.24	0.24		0.79	0.53		-			64.31	64.02		53.22	49.82		-			64.31	64.02		53.22	49.82		+	
Fisher's		Power	0.031		Power-50%		---	P-value		0.309	Power	0.002		Power-50%		0.001	P-value		0.558	Power	0.002		Power-50%		0.002	P-value		0.558
Stouffer's		Power	0.012		Power-50%		---	P-value		0.261	Power	0.000		Power-50%		0.001	P-value		0.463	Power	0.000		Power-50%		0.002	P-value		0.463
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	4.11	4.11	5	3.77	3.63	1.0	+	0.961	2	0.00	0.00	5	20.37	15.96	1.7	-	0.271	2	0.00	0.00	5	13.86	13.86	2.1	-	0.374
Habitat Means			4.11	4.11		3.77	3.63		+			0.00	0.00		20.37	15.96		-			0.00	0.00		13.86	13.86		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.48. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. June 1991. (Continued.)

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.01	0.01	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.01	0.01		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.260
P15.1C/P15.1	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.14	0.14	1.6	-	0.374
2397C/20809	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	5.03	5.03	1.4	-	0.812
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		2.59	2.59		-	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	0.119		Power-50%		0.119	P-value		0.272
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.192		Power-50%		0.017	P-value		0.213
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	0.00	0.00	5	6.51	4.11	1.4	-	0.189	2	0.00	0.00	5	0.00	0.00	2.1	-	0.374	2	0.20	0.20	5	1.00	1.00	1.8	-	0.652
Habitat Means			0.00	0.00		6.51	4.11		-			0.00	0.00		0.00	0.00		-			0.20	0.20		1.00	1.00		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000	3	0.00	0.00	4	0.00	0.00	-	o	1.000
2397C/20809	1	6	0.01	0.01	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.260	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	2	4	0.00	0.00	5	0.14	0.14	1.6	-	0.374	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
2397C/20809	2	6	0.00	0.00	6	5.03	5.03	1.4	-	0.812	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.59	2.59		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.121		Power-50%		0.094	P-value		0.272	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.201		Power-50%		0.014	P-value		0.213	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	2	0.20	0.20	5	1.00	1.00	1.8	-	0.652	2	0.00	0.00	5	0.07	0.07	2.0	-	0.345	2	0.00	0.00	5	0.07	0.07	2.0	-	0.345
Habitat Means			0.20	0.20		1.00	1.00		-			0.00	0.00		0.07	0.07		-			0.00	0.00		0.07	0.07		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

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

Table C-3.48. Algal Biomass. Rhodophyta. Prince William Sound. Estuarine. June 1991. (Continued.)

		Halosaccion glandiforme (A)																											
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
P15.1C/P15.1	1	3	0.00	0.00	4	0.00	0.00	-	o	1.000																			
2397C/20809	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																			
Habitat Means			0.00	0.00		0.00	0.00		o																				
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
P15.1C/P15.1	2	4	0.00	0.00	5	0.00	0.00	-	o	1.000																			
2397C/20809	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																			
Habitat Means			0.00	0.00		0.00	0.00		o																				
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
P15.1C/P15.1	3	0	--	--	0	--	--	-		---																			
2397C/20809	3	2	0.00	0.00	5	0.07	0.07	2.0	-	0.345																			
Habitat Means			0.00	0.00		0.07	0.07		-																				
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			

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

Table C-3.49. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Algal Taxa Richness (a) N	C	SE	N	O	SE	CV	D	P	Total Algae N	C	SE	N	O	SE	CV	D	P	Perennials (P) N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	1.33	1.33	1.4	-	0.423	3	0.00	0.00	3	29.51	29.51	1.4	-	0.423	3	0.00	0.00	3	29.50	29.50	1.4	-	0.423
4537C/979	1	0	--	--	3	0.33	0.33	-		---	0	--	--	3	49.30	49.30	-		---	0	--	--	3	49.30	49.30	-		---
Habitat Means			0.00	0.00		0.83	0.83	-				0.00	0.00		39.40	39.40	-				0.00	0.00		39.40	39.40	-		
Fisher's		Power ---			Power-50%		--- P-value		--- z		Power ---			Power-50%		--- P-value		--- z		Power ---			Power-50%		--- P-value		--- z	
Stouffer's		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---	
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	2.67	1.20	2	3.50	2.50	0.5	-	0.754	3	4223.11	2152.53	2	69.60	67.10	0.9	+	0.232	3	4222.97	2152.49	2	68.25	65.75	0.9	+	0.232
4537C/979	2	0	--	--	3	0.33	0.33	-		---	0	--	--	3	4.47	4.47	-		---	0	--	--	3	4.47	4.47	-		---
Habitat Means			2.67	1.20		1.92	1.42	-				4223.11	2152.53		37.03	35.78	+				4222.97	2152.49		36.36	35.11	-		
Fisher's		Power ---			Power-50%		--- P-value		--- yz		Power ---			Power-50%		--- P-value		--- z		Power ---			Power-50%		--- P-value		--- z	
Stouffer's		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---	
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	2.67	1.33	2	10.00	6.00	0.5	-	0.223	3	254.77	219.28	2	361.51	357.89	0.9	-	0.802	3	251.60	219.43	2	220.01	218.11	1.0	+	0.929
4537C/979	3	0	--	--	2	8.50	2.50	-		---	0	--	--	2	936.07	334.14	-		---	0	--	--	2	917.11	345.20	-		---
Habitat Means			2.67	1.33		9.25	4.25	-				254.77	219.28		648.79	346.02	-				251.60	219.43		568.56	281.65	-		
Fisher's		Power ---			Power-50%		--- P-value		--- z		Power ---			Power-50%		--- P-value		--- z		Power ---			Power-50%		--- P-value		--- yz	
					Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---	

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

Site Pair	MVD	Annuals (A) N	C	SE	N	O	SE	CV	D	P	Ephemerals (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
1642C/833	1	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000									
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			0.00	0.00		0.00	0.00	-				0.00	0.00		0.00	0.00		o										
Fisher's		Power ---			Power-50%		--- P-value		--- z		Power ---			Power-50%		--- P-value		--- z		Power ---			Power-50%		--- P-value			
Stouffer's		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value			
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
1642C/833	2	3	0.14	0.14	2	1.35	1.35	1.0	-	0.320	3	0.00	0.00	2	0.00	0.00	1.8	-	0.423									
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			0.14	0.14		0.68	0.68	-				0.00	0.00		0.00	0.00	+											
Fisher's		Power ---			Power-50%		--- P-value		--- z		Power ---			Power-50%		--- P-value		--- z		Power ---			Power-50%		--- P-value			
Stouffer's		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value			
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
1642C/833	3	3	3.17	2.05	2	141.50	139.78	1.0	-	0.372	3	2.34	2.34	2	1.17	1.17	1.2	+	0.734									
4537C/979	3	0	--	--	2	18.97	11.06	-		---	0	--	--	2	0.06	0.05	-		---									
Habitat Means			3.17	2.05		80.23	75.42	-				2.34	2.34		0.61	0.61	-											
Fisher's		Power ---			Power-50%		--- P-value		--- z		Power ---			Power-50%		--- P-value		--- z		Power ---			Power-50%		--- P-value			
					Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value			

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

Table C-3.50. Algal Biomass. Chlorophyta. Prince William Sound. Exposed Rocky. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Total Chlorophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group - Bladed Greens N	C	SE	N	O	SE	CV	D	P	Kornmannia leptoderma (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.05	0.05	1.0	-	0.500	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.03	0.03	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	0.14	0.13	2	1.17	1.15	0.9	-	0.322	3	0.00	0.00	2	1.15	1.15	1.0	-	0.500	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			0.14	0.13		0.58	0.57	-				0.00	0.00		0.58	0.58	-				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Monostroma/Ulvaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Total Ulva (AE) N	C	SE	N	O	SE	CV	D	P	Ulva spp. (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	1.15	1.15	1.0	-	0.500	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.58	0.58	-				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.50. Algal Biomass. Chlorophyta. Prince William Sound. Exposed Rocky. September 1989. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00	-				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.05	0.05	1.0	-	0.500	3	0.00	0.00	2	0.05	0.05	1.0	-	0.500
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.03	0.03	-				0.00	0.00		0.03	0.03		-	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	0.00	0.00	2	1.15	1.15	1.0	+	0.500	3	0.14	0.13	2	0.02	0.00	1.5	+	0.536	3	0.13	0.13	2	0.01	0.01	1.7	+	0.510
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.58	0.58		+			0.14	0.13		0.01	0.00	+				0.13	0.13		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha melagonium (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00	-				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	0.00	0.00	2	0.01	0.01	1.0	-	0.500	3	0.00	0.00	2	0.01	0.01	1.0	-	0.500	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00	-				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	

(b) Chaetomorpha melagonium not included.

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

Table C-3.50. Algal Biomass. Chlorophyta. Prince William Sound. Exposed Rocky. September 1989. (Continued.)

Site Pair	MYD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3		0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0		--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o				0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power			Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	2	0	--	--	0	--	--	-		---	0		--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3		0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0		--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o				0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power			Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	3	0	--	--	0	--	--	-		---	0		--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	0.00	0.00	2	0.01	0.01	0.9	-	0.571	3		0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0		--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		-				0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power			Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MYD	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.51. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Alaria sp. (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	7.20	7.20	1.4	-	0.423	3	0.00	0.00	3	7.20	7.20	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	49.30	49.30	-		---	0	--	--	3	49.30	49.30	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		28.25	28.25		-			0.00	0.00		28.25	28.25		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	4218.24	2151.35	2	49.55	49.55	0.9	+	0.230	3	4218.10	2151.31	2	48.25	48.25	0.9	+	0.230	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	4.47	4.47	-		---	0	--	--	3	4.47	4.47	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			4218.24	2151.35		27.01	27.01		+			4218.10	2151.31		26.36	26.36		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	52.70	26.58	2	145.21	143.31	0.8	-	0.470	3	49.67	25.31	2	142.30	140.40	0.8	-	0.460	3	0.00	0.00	2	4.80	4.80	1.0	-	0.500
4537C/979	3	0	--	--	2	637.11	625.40	-		---	0	--	--	2	632.40	629.90	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			52.70	26.58		391.16	384.35		-			49.67	25.31		387.35	385.15		-			0.00	0.00		2.40	2.40		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Fucus gardneri (P)								Laminaria sp. (P)								Petalonia fascia (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	7.20	7.20	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	49.30	49.30	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		28.25	28.25		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	4218.10	2151.31	2	48.25	48.25	0.9	+	0.230	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	4.47	4.47	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			4218.10	2151.31		26.36	26.36		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	49.67	25.31	2	137.00	135.10	0.8	-	0.470	3	0.00	0.00	2	0.50	0.50	1.0	-	0.500	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0	--	--	2	632.40	629.90	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			49.67	25.31		384.70	382.50		-			0.00	0.00		0.25	0.25		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.51. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Browns									Analipus japonicus (P)									Chordaria flagelliformis (A)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z
Stouffer's		Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z
Stouffer's		Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0	--	--	2	0.05	0.05	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.03	0.03		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power		---		Power-50%		---	P-value	--- yz	Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z
Stouffer's		Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---

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

Site Pair	MVD	Cystoseira geminata (P)									Total Dictyosiphon (A)									Dictyosiphon foeniculaceus (A)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z
Stouffer's		Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z
Stouffer's		Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z	Power		---		Power-50%		---	P-value	--- z
Stouffer's		Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---	Power		---		Power-50%		---	P-value	---

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

Table C-3.51. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. September 1989. (Continued.)

Site Pair	MVD	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Eudesme virescens (AE) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- x
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.05	0.05	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.03	0.03		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.00	0.00	1.8	+	0.423	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	2.33	2.33	2	0.01	0.01	1.8	+	0.834	3	1.33	1.33	2	0.00	0.00	1.8	+	0.423	3	1.00	1.00	2	0.00	0.00	1.8	-	0.423
4537C/979	3	0	--	--	2	0.06	0.05	-		---	0	--	--	2	0.05	0.05	-		---	0	--	--	2	0.01	0.01	-		---
Habitat Means			2.33	2.33		0.03	0.03		+			1.33	1.33		0.03	0.03		+			1.00	1.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.51. Algal Biomass. Phaeophyta. Prince William Sound, Exposed Rocky. September 1989. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Colpomenia peregrina (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.00	0.00	1.8	+	0.423	3	0.13	0.13	2	1.30	1.30	1.0	-	0.321	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		+			0.13	0.13		0.65	0.65		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	0.00	0.00	2	0.01	0.01	1.0	-	0.500	3	0.70	0.70	2	0.00	0.00	1.8	+	0.423	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0	--	--	2	0.01	0.01	-		---	0	--	--	2	4.60	4.60	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.01	0.01		-			0.70	0.70		2.30	2.30		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	yz	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

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

Site Pair	MVD	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P
19C/19	1	0		--	0	--	--	-		---	0		--	0	--	--	-		---		--	--	0	--	--	-		---
1642C/833	1	3		0.00	3	0.00	0.00	-	o	1.000	3		0.00	3	0.00	0.00	-	o	1.000		0.00	0.00	3	0.00	0.00	-	o	
4537C/979	1	0		--	3	0.00	0.00	-		---	0		--	3	0.00	0.00	-		---		--	--	3	0.00	0.00	-		
Habitat Means				0.00		0.00	0.00		o				0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o	
Fisher's		Power			Power-50%	---	P-value		---	z	Power			Power-50%	---	P-value		---			---		Power-50%	---	P-value			
Stouffer's		Power			Power-50%	---	P-value		---		Power			Power-50%	---	P-value		---			---		Power-50%	---	P-value			
19C/19	2	0		--	0	--	--	-		---	0		--	0	--	--	-		---		--	--	0	--	--	-		
1642C/833	2	3		0.13	2	0.40	0.40	0.9	-	0.495	3		0.00	2	0.90	0.90	1.0	-	0.500		0.00	0.00	2	0.00	0.00	-	o	
4537C/979	2	0		--	3	0.00	0.00	-		---	0		--	3	0.00	0.00	-		---		--	--	3	0.00	0.00	-		
Habitat Means				0.13		0.20	0.20		-				0.00		0.45	0.45		-				0.00	0.00		0.00	0.00		o	
Fisher's		Power			Power-50%	---	P-value		---	z	Power			Power-50%	---	P-value		---			---		Power-50%	---	P-value			
Stouffer's		Power			Power-50%	---	P-value		---		Power			Power-50%	---	P-value		---			---		Power-50%	---	P-value			
19C/19	3	0		--	0	--	--	-		---	0		--	0	--	--	-		---		--	--	0	--	--	-		
1642C/833	3	3		0.00	2	0.00	0.00	-	o	1.000	3		0.70	2	0.00	0.00	1.8	+	0.423		0.00	0.00	2	2.90	2.90	1.0	-	
4537C/979	3	0		--	2	4.00	4.00	-		---	0		--	2	0.60	0.60	-		---		--	--	2	0.00	0.00	-		
Habitat Means				0.00		2.00	2.00		o				0.70		0.30	0.30		+				0.00	0.00		1.45	1.45		-	
Fisher's		Power			Power-50%	---	P-value		---	yz	Power			Power-50%	---	P-value		---			---		Power-50%	---	P-value			
Stouffer's		Power			Power-50%	---	P-value		---		Power			Power-50%	---	P-value		---			---		Power-50%	---	P-value			

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

1. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. September 1989. (Continued.)

Ralfsia fungiformis (P)

		N	C	SE	N	C	SE	CV	D	P	N	C	SE	N	C	SE	CV	D	P
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000									
4537C/979	1	0	--	--	3	0.00	0.00	-		---									
Habitat Means			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%	---	P-value	Power	---		Power-50%	---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%	---	P-value	Power	---		Power-50%	---	P-value
19C/19	2	0	--	--	0	--	--	-		---									
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000									
4537C/979	2	0	--	--	3	0.00	0.00	-		---									
Habitat Means			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%	---	P-value	Power	---		Power-50%	---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%	---	P-value	Power	---		Power-50%	---	P-value
19C/19	3	0	--	--	0	--	--	-		---									
1642C/833	3	3	0.00	0.00	2	2.90	2.90	1.0	-	0.500									
4537C/979	3	0	--	--	2	0.00	0.00	-		---									
Habitat Means			0.00	0.00		1.45	1.45		-										
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%	---	P-value	Power	---		Power-50%	---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%	---	P-value	Power	---		Power-50%	---	P-value

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

Table C-3.52. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Total Rhodophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group - Bladed Reds N	C	SE	N	O	SE	CV	D	P	Constantinea simplex (P) N	C	SE	N	O	SE	CV	D	P
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	1	3	0.00	0.00	3	22.30	22.30	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		11.15	11.15	-				0.00	0.00		0.00	0.00	-				0.00	0.00		0.00	0.00	o		
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	4.87	4.87	2	20.00	17.50	0.8	-	0.373	3	0.00	0.00	2	0.85	0.85	1.0	-	0.500	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			4.87	4.87		10.00	8.75	-				0.00	0.00		0.43	0.43	-				0.00	0.00		0.00	0.00	o		
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	201.93	201.93	2	215.13	213.43	1.0	-	0.968	3	0.00	0.00	2	133.60	131.90	1.0	-	0.496	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0	--	--	2	298.96	291.26	-		---	0	--	--	2	207.45	199.75	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			201.93	201.93		257.05	252.35	-				0.00	0.00		170.53	165.83	-				0.00	0.00		0.00	0.00	o		
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Gigartinaceae Group (P) (a) N	C	SE	N	O	SE	CV	D	P	Total Palmaria (A) N	C	SE	N	O	SE	CV	D	P	Palmaria spp. (A) N	C	SE	N	O	SE	CV	D	P
1642C/833	1	3		0.00	3	0.00	0.00	1.4	-	0.423	3		0.00	3	0.00	0.00	-	o	1.000	3		0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0		--	3	0.00	0.00	-		---	0		--	3	0.00	0.00	-		---	0		--	3	0.00	0.00	-		---
Habitat Means				0.00		0.00	0.00	-					0.00		0.00	0.00	o					0.00		0.00	0.00	o		
Fisher's		Power			Power-50%		---	P-value		--- z	Power			Power-50%		---	P-value		--- z	Power			Power-50%		---	P-value		--- z
Stouffer's		Power			Power-50%		---	P-value		---	Power			Power-50%		---	P-value		---	Power			Power-50%		---	P-value		---
19C/19	2	0		--	0	--	--	-		---	0		--	0	--	--	-		---	0		--	0	--	--	-		---
1642C/833	2	3		0.00	2	0.85	0.85	1.0	-	0.500	3		0.00	2	0.00	0.00	-	o	1.000	3		0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0		--	3	0.00	0.00	-		---	0		--	3	0.00	0.00	-		---	0		--	3	0.00	0.00	-		---
Habitat Means				0.00		0.43	0.43	-					0.00		0.00	0.00	o					0.00		0.00	0.00	o		
Fisher's		Power			Power-50%		---	P-value		--- z	Power			Power-50%		---	P-value		--- z	Power			Power-50%		---	P-value		--- z
Stouffer's		Power			Power-50%		---	P-value		---	Power			Power-50%		---	P-value		---	Power			Power-50%		---	P-value		---
19C/19	3	0		--	0	--	--	-		---	0		--	0	--	--	-		---	0		--	0	--	--	-		---
1642C/833	3	3		0.00	2	6.30	6.30	1.0	-	0.500	3		0.00	2	126.45	126.45	1.0	-	0.500	3		0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0		--	2	203.60	203.60	-		---	0		--	2	1.05	1.05	-		---	0		--	2	1.05	1.05	-		---
Habitat Means				0.00		104.95	104.95	-					0.00		63.75	63.75	-					0.00		0.53	0.53	o		
Fisher's		Power			Power-50%		---	P-value		--- z	Power			Power-50%		---	P-value		--- z	Power			Power-50%		---	P-value		--- yz
Stouffer's		Power			Power-50%		---	P-value		---	Power			Power-50%		---	P-value		---	Power			Power-50%		---	P-value		---

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.52. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. September 1989. (Continued.)

Site Pair	MVD	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV	D	P	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	126.45	126.45	1.0	-	0.500
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		63.23	63.23		-	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	

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

Site Pair	MVD	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.85	0.85	1.0	-	0.500	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	2.80	2.80	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		1.83	1.83		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	

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

Table C-3.52. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds									Ahnfeltia fastigata (P)										Cryptosiphonia woodii (A)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
1642C/833	1	3	0.00	0.00	3	22.30	22.30	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			0.00	0.00		11.15	11.15	-				0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
1642C/833	2	3	4.87	4.87	2	19.15	16.65	0.8	-	0.380	3	0.00	0.00	2	0.00	0.00	1.8	-	0.423		3	0.00	0.00	2	0.00	0.00	-	o	1.000	
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			4.87	4.87		9.57	8.32	-				0.00	0.00		0.00	0.00		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
1642C/833	3	3	201.93	201.93	2	73.75	73.75	1.3	-	0.663	3	0.00	0.00	2	0.00	0.00	-	o	1.000		3	0.00	0.00	2	0.45	0.45	1.0	-	0.500	
4537C/979	3	0	--	--	2	81.71	81.71	-		---	0	--	--	2	0.00	0.00	-		---		0	--	--	2	6.45	6.45	-		---	
Habitat Means			201.93	201.93		77.73	77.73	-				0.00	0.00		0.00	0.00		o				0.00	0.00		3.45	3.45		-		
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

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

Site Pair	MVD	Dumontia contorta (AE)									Endocladia muricata (P)										Gloiopeltis furcata (A)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	22.30	22.30	1.4	-	0.423		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		11.15	11.15		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
1642C/833	2	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	1.25	1.25	1.0	-	0.500		3	0.00	0.00	2	0.00	0.00	-	o	1.000	
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.63	0.63		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
1642C/833	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000		3	0.00	0.00	2	0.00	0.00	-	o	1.000	
4537C/979	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---		0	--	--	2	0.00	0.00	-		---	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

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

Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. September 1989. (Continued.)

		Total Neorhodomela/Rhodomela (P)								Neorhodomela/Rhodomela spp. (P) (b)								Neorhodomela larix (P)							
	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P
1642C/833	1 3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1 0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	2 0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2 3	4.87	4.87	2	17.90	17.90	0.9	-	0.442	3	4.87	4.87	2	17.90	17.90	0.9	-	0.442	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2 0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means		4.87	4.87		8.95	8.95		-			4.87	4.87		8.95	8.95		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	3 0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3 3	201.93	201.93	2	30.85	30.85	1.6	+	0.560	3	201.93	201.93	2	0.00	0.00	1.8	+	0.423	3	0.00	0.00	2	30.85	30.85	1.0	-	0.500
4537C/979	3 0	--	--	2	75.25	75.25	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	75.25	75.25	-		---
Habitat Means		201.93	201.93		53.05	53.05		+			201.93	201.93		0.00	0.00		+			0.00	0.00		53.05	53.05		-	
Fisher's	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Neorhodomela larix not included.

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

		Neoptilota asplenioides (P)								Ptilota sp. (P)								Odonthalia floccosa (P)							
	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P
1642C/833	1 3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	1 0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	2 0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	2 3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
4537C/979	2 0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
19C/19	3 0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1642C/833	3 3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	42.45	42.45	1.0	-	0.500
4537C/979	3 0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.01	0.01	-		---
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		21.23	21.23		-	
Fisher's	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.52. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Reds N	C	SE	Antithamnion/Antithamnionella (A) (b) N	C	SE	Audouinella purpurea (AE) N	C	SE
1642C/833	1	3 0.00 0.00	3 0.00 0.00 - o 1.000		3 0.00 0.00	3 0.00 0.00 - o 1.000		3 0.00 0.00	3 0.00 0.00 - o 1.000	
4537C/979	1	0 -- --	3 0.00 0.00 - ---		0 -- --	3 0.00 0.00 - ---		0 -- --	3 0.00 0.00 - ---	
Habitat Means		0.00 0.00	0.00 0.00 o		0.00 0.00	0.00 0.00 o		0.00 0.00	0.00 0.00 o	
Fisher's		Power ---	Power-50% --- P-value --- z		Power ---	Power-50% --- P-value --- z		Power ---	Power-50% --- P-value --- z	
Stouffer's		Power ---	Power-50% --- P-value ---		Power ---	Power-50% --- P-value ---		Power ---	Power-50% --- P-value ---	
19C/19	2	0 -- --	0 -- -- - ---		0 -- --	0 -- -- - ---		0 -- --	0 -- -- - ---	
1642C/833	2	3 0.00 0.00	2 0.00 0.00 - o 1.000		3 0.00 0.00	2 0.00 0.00 - o 1.000		3 0.00 0.00	2 0.00 0.00 - o 1.000	
4537C/979	2	0 -- --	3 0.00 0.00 - ---		0 -- --	3 0.00 0.00 - ---		0 -- --	3 0.00 0.00 - ---	
Habitat Means		0.00 0.00	0.00 0.00 o		0.00 0.00	0.00 0.00 o		0.00 0.00	0.00 0.00 o	
Fisher's		Power ---	Power-50% --- P-value --- z		Power ---	Power-50% --- P-value --- z		Power ---	Power-50% --- P-value --- z	
Stouffer's		Power ---	Power-50% --- P-value ---		Power ---	Power-50% --- P-value ---		Power ---	Power-50% --- P-value ---	
19C/19	3	0 -- --	0 -- -- - ---		0 -- --	0 -- -- - ---		0 -- --	0 -- -- - ---	
1642C/833	3	3 0.00 0.00	2 0.78 0.78 1.0 - 0.500		3 0.00 0.00	2 0.00 0.00 - o 1.000		3 0.00 0.00	2 0.00 0.00 - o 1.000	
4537C/979	3	0 -- --	2 0.01 0.01 - ---		0 -- --	2 0.00 0.00 - ---		0 -- --	2 0.00 0.00 - ---	
Habitat Means		0.00 0.00	0.39 0.39 -		0.00 0.00	0.00 0.00 o		0.00 0.00	0.00 0.00 o	
Fisher's		Power ---	Power-50% --- P-value --- z		Power ---	Power-50% --- P-value --- z		Power ---	Power-50% --- P-value --- z	
Stouffer's		Power ---	Power-50% --- P-value ---		Power ---	Power-50% --- P-value ---		Power ---	Power-50% --- P-value ---	

(b) Genera not separated.

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

Site Pair	MVD	Callithamnion pikeanum (A) N	C	SE	Ceramium sp. (A) N	C	SE	Polysiphonia/Pterosiphonia (A) (a) N	C	SE
19C/19	1	0 -- --	0 -- -- - ---		0 -- --	0 -- -- - ---		0 -- --	0 -- -- - ---	
1642C/833	1	3 0.00 0.00	3 0.00 0.00 - o 1.000		3 0.00 0.00	3 0.00 0.00 - o 1.000		3 0.00 0.00	3 0.00 0.00 - o 1.000	
4537C/979	1	0 -- --	3 0.00 0.00 - ---		0 -- --	3 0.00 0.00 - ---		0 -- --	3 0.00 0.00 - ---	
Habitat Means		0.00 0.00	0.00 0.00 o		0.00 0.00	0.00 0.00 o		0.00 0.00	0.00 0.00 o	
Fisher's		Power ---	Power-50% --- P-value --- z		Power ---	Power-50% --- P-value --- z		Power ---	Power-50% --- P-value --- z	
Stouffer's		Power ---	Power-50% --- P-value ---		Power ---	Power-50% --- P-value ---		Power ---	Power-50% --- P-value ---	
19C/19	2	0 -- --	0 -- -- - ---		0 -- --	0 -- -- - ---		0 -- --	0 -- -- - ---	
1642C/833	2	3 0.00 0.00	2 0.00 0.00 - o 1.000		3 0.00 0.00	2 0.00 0.00 - o 1.000		3 0.00 0.00	2 0.00 0.00 - o 1.000	
4537C/979	2	0 -- --	3 0.00 0.00 - ---		0 -- --	3 0.00 0.00 - ---		0 -- --	3 0.00 0.00 - ---	
Habitat Means		0.00 0.00	0.00 0.00 o		0.00 0.00	0.00 0.00 o		0.00 0.00	0.00 0.00 o	
Fisher's		Power ---	Power-50% --- P-value --- z		Power ---	Power-50% --- P-value --- z		Power ---	Power-50% --- P-value --- z	
Stouffer's		Power ---	Power-50% --- P-value ---		Power ---	Power-50% --- P-value ---		Power ---	Power-50% --- P-value ---	
19C/19	3	0 -- --	0 -- -- - ---		0 -- --	0 -- -- - ---		0 -- --	0 -- -- - ---	
1642C/833	3	3 0.00 0.00	2 0.01 0.01 1.0 - 0.500		3 0.00 0.00	2 0.00 0.00 - o 1.000		3 0.00 0.00	2 0.77 0.77 1.0 - 0.500	
4537C/979	3	0 -- --	2 0.00 0.00 - ---		0 -- --	2 0.00 0.00 - ---		0 -- --	2 0.01 0.01 - ---	
Habitat Means		0.00 0.00	0.00 0.00 -		0.00 0.00	0.00 0.00 o		0.00 0.00	0.39 0.39 -	
Fisher's		Power ---	Power-50% --- P-value --- z		Power ---	Power-50% --- P-value --- z		Power ---	Power-50% --- P-value --- z	
Stouffer's		Power ---	Power-50% --- P-value ---		Power ---	Power-50% --- P-value ---		Power ---	Power-50% --- P-value ---	

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

Table C-3.52. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. September 1989. (Continued.)

Site Pair	MVD	Scagelia/Hollenbergia (P) (b) N	C	SE	Morphological Group - Saccate Reds N	C	SE	Total Halosaccion (A) N	C	SE
19C/19	1	0	--	--	0	--	--	0	--	--
1642C/833	1	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00
4537C/979	1	0	--	--	0	--	--	0	--	--
Habitat Means			0.00	0.00		0.00	0.00		0.00	0.00
19C/19	2	0	--	--	0	--	--	0	--	--
1642C/833	2	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00
4537C/979	2	0	--	--	0	--	--	0	--	--
Habitat Means			0.00	0.00		0.00	0.00		0.00	0.00
19C/19	3	0	--	--	0	--	--	0	--	--
1642C/833	3	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00
4537C/979	3	0	--	--	0	--	--	0	--	--
Habitat Means			0.00	0.00		0.00	0.00		0.00	0.00

Site Pair	MVD	Scagelia/Hollenbergia (P) (b) SE	CV	D	P	Morphological Group - Saccate Reds SE	CV	D	P	Total Halosaccion (A) SE	CV	D	P
19C/19	1	--	-		---	--	-		---	--	-		---
1642C/833	1	0.00	-	o	1.000	0.00	-	o	1.000	0.00	-	o	1.000
4537C/979	1	--	-		---	--	-		---	--	-		---
Habitat Means		0.00		o		0.00		o		0.00		o	
19C/19	2	--	-		---	--	-		---	--	-		---
1642C/833	2	0.00	-	o	1.000	0.00	-	o	1.000	0.00	-	o	1.000
4537C/979	2	--	-		---	--	-		---	--	-		---
Habitat Means		0.00		o		0.00		o		0.00		o	
19C/19	3	--	-		---	--	-		---	--	-		---
1642C/833	3	0.00	-	o	1.000	7.00	7.00	1.0 -	0.500	7.00	7.00	1.0 -	0.500
4537C/979	3	--	-		---	3.95	3.95	-	---	3.95	3.95	-	---
Habitat Means		0.00		o		5.48	5.48	-		5.48	5.48	-	

	Scagelia/Hollenbergia (P) (b)			Morphological Group - Saccate Reds			Total Halosaccion (A)		
Fisher's	Power	---		Power-50%	---	P-value	---	z Power	---
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---
Fisher's	Power	---		Power-50%	---	P-value	---	z Power	---
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---
Fisher's	Power	---		Power-50%	---	P-value	---	z Power	---
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---

	Scagelia/Hollenbergia (P) (b)			Morphological Group - Saccate Reds			Total Halosaccion (A)		
Fisher's	Power	---		Power-50%	---	P-value	---	z Power	---
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---
Fisher's	Power	---		Power-50%	---	P-value	---	z Power	---
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---
Fisher's	Power	---		Power-50%	---	P-value	---	z Power	---
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---

(b) Genera not separated.

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

Site Pair	MVD	Halosaccion glandiforme (A) N	C	SE	Morphological Group - Calcified Reds N	C	SE	Articulate Coralline Algae (A) N	C	SE
19C/19	1	0	--	--	0	--	--	0	--	--
1642C/833	1	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00
4537C/979	1	0	--	--	0	--	--	0	--	--
Habitat Means			0.00	0.00		0.00	0.00		0.00	0.00
19C/19	2	0	--	--	0	--	--	0	--	--
1642C/833	2	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00
4537C/979	2	0	--	--	0	--	--	0	--	--
Habitat Means			0.00	0.00		0.00	0.00		0.00	0.00
19C/19	3	0	--	--	0	--	--	0	--	--
1642C/833	3	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00
4537C/979	3	0	--	--	0	--	--	0	--	--
Habitat Means			0.00	0.00		0.00	0.00		0.00	0.00

Site Pair	MVD	Halosaccion glandiforme (A) SE	CV	D	P	Morphological Group - Calcified Reds SE	CV	D	P	Articulate Coralline Algae (A) SE	CV	D	P
19C/19	1	--	-		---	--	-		---	--	-		---
1642C/833	1	0.00	-	o	1.000	0.00	-	o	1.000	0.00	-	o	1.000
4537C/979	1	--	-		---	--	-		---	--	-		---
Habitat Means		0.00		o		0.00		o		0.00		o	
19C/19	2	--	-		---	--	-		---	--	-		---
1642C/833	2	0.00	-	o	1.000	0.00	1.8	+	0.423	0.00	1.8	+	0.423
4537C/979	2	--	-		---	--	-		---	--	-		---
Habitat Means		0.00		o		0.00		+		0.00		+	
19C/19	3	--	-		---	--	-		---	--	-		---
1642C/833	3	7.00	7.00	1.0 -	0.500	0.01	0.01	1.0 -	0.500	0.01	0.01	1.0 -	0.500
4537C/979	3	3.95	3.95	-	---	5.85	5.85	-	---	5.85	5.85	-	---
Habitat Means		5.48	5.48	-		2.93	2.93	-		2.93	2.93	-	

	Halosaccion glandiforme (A)			Morphological Group - Calcified Reds			Articulate Coralline Algae (A)		
Fisher's	Power	---		Power-50%	---	P-value	---	z Power	---
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---
Fisher's	Power	---		Power-50%	---	P-value	---	z Power	---
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---
Fisher's	Power	---		Power-50%	---	P-value	---	z Power	---
Stouffer's	Power	---		Power-50%	---	P-value	---	Power	---

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

Table C-3.53. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.50	0.34	6	0.33	0.21	0.7	+	0.687	6	83.90	83.68	6	140.22	105.26	0.8	-	0.684	6	83.90	83.68	6	140.22	105.26	0.8	-	0.684
1642C/833	1	6	0.17	0.17	4	2.25	1.03	0.5	-	0.135	6	31.88	31.88	4	34.93	30.18	1.0	-	0.949	6	31.88	31.88	4	34.43	30.34	1.0	-	0.958
4537C/979	1	6	1.83	0.60	6	0.83	0.83	0.5	+	0.353	6	2350.94	1048.53	6	0.74	0.74	0.6	+	0.005	6	2350.18	1048.75	6	0.22	0.22	0.6	+	0.003
Habitat Means			0.83	0.37		1.14	0.69		+			822.24	388.03		58.63	45.39		-			821.99	388.10		58.29	45.27		-	
Fisher's		Power	0.158		Power-50%		0.548	P-value		0.452 y	Power	0.008		Power-50%		0.065	P-value		0.725xy	Power	0.006		Power-50%		0.006	P-value		0.728xy
Stouffer's		Power	0.080		Power-50%		0.632	P-value		0.434	Power	0.000		Power-50%		0.199	P-value		0.987	Power	0.000		Power-50%		0.169	P-value		0.990
19C/19	2	6	4.33	1.52	6	4.67	1.99	0.4	-	0.897	6	170.79	83.52	6	1330.81	654.16	0.6	-	0.833	6	87.65	44.00	6	1252.97	637.98	0.7	-	0.916
1642C/833	2	6	2.17	0.79	4	3.50	3.50	0.7	-	0.662	6	2427.54	1167.78	4	383.24	383.24	0.7	+	0.208	6	2425.62	1168.57	4	370.40	370.40	0.7	+	0.205
4537C/979	2	6	6.83	2.07	6	4.50	2.05	0.4	+	0.442	6	2416.37	685.20	6	1682.29	1101.82	0.4	+	0.584	6	2384.68	681.02	6	1667.81	1093.84	0.4	+	0.590
Habitat Means			4.44	1.46		4.22	2.51		-			1671.57	645.50		1132.11	713.07		+			1632.65	631.19		1097.06	700.74		+	
Fisher's		Power	0.011		Power-50%		0.643	P-value		0.634 y	Power	0.095		Power-50%		0.152	P-value		0.233	Power	0.076		Power-50%		0.076	P-value		0.222
Stouffer's		Power	0.007		Power-50%		0.734	P-value		0.656	Power	0.176		Power-50%		0.228	P-value		0.157	Power	0.151		Power-50%		0.229	P-value		0.151
19C/19	3	4	3.50	2.84	6	9.50	3.20	0.5	-	0.228	4	146.10	130.23	6	1583.14	585.54	0.6	-	0.088	4	93.39	77.60	6	1249.39	521.35	0.7	-	0.445
1642C/833	3	5	5.60	3.89	4	4.25	1.25	0.6	+	0.775	5	3053.86	2568.11	4	1179.00	1174.31	1.0	+	0.563	5	3048.75	2563.58	4	1169.93	1167.59	1.0	+	0.561
4537C/979	3	4	10.00	3.34	6	12.33	2.88	0.3	-	0.616	4	852.42	536.11	6	2683.07	909.90	0.5	-	0.170	4	681.39	555.40	6	2547.14	895.49	0.5	-	0.159
Habitat Means			6.37	3.36		8.69	2.45		-			1350.79	1078.15		1815.07	889.91		-			1274.51	1065.53		1655.49	861.48		-	
Fisher's		Power	0.204		Power-50%		0.338	P-value		0.262	Power	---		Power-50%		---	P-value		0.066	Power	0.021		Power-50%		0.021	P-value		0.190
Stouffer's		Power	0.213		Power-50%		0.409	P-value		0.275	Power	---		Power-50%		---	P-value		0.094	Power	0.024		Power-50%		0.290	P-value		0.136

(a) 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.

		Annuals (A)								Ephemerals (AE)															
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
1642C/833	1	6	0.00	0.00	4	0.50	0.50	1.1	-	0.388	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
4537C/979	1	6	0.75	0.75	6	0.52	0.52	1.0	+	0.803	6	0.35	0.35	6	0.00	0.00	1.4	+	0.637									
Habitat Means			0.25	0.25		0.34	0.34		+			0.12	0.12		0.00	0.00		-										
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.461 y	Power	---		Power-50%		---	P-value		0.536	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.001		Power-50%		0.002	P-value		0.487	Power	---		Power-50%		---	P-value		0.346	Power	---		Power-50%		---	P-value		
19C/19	2	6	83.14	70.28	6	77.84	49.31	0.8	+	0.952	6	0.22	0.22	6	59.89	48.56	1.2	-	0.267									
1642C/833	2	6	1.92	1.92	4	12.83	12.83	1.0	-	0.901	6	0.34	0.33	4	0.33	0.33	1.0	-	0.987									
4537C/979	2	6	31.69	16.24	6	14.48	9.60	0.6	+	0.383	6	1.43	1.43	6	7.84	5.14	0.8	-	0.257									
Habitat Means			38.92	29.48		35.05	23.92		+			0.66	0.66		22.69	18.01		-										
Fisher's		Power	0.031		Power-50%		0.122	P-value		0.425	Power	0.091		Power-50%		0.070	P-value		0.148	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.067		Power-50%		0.290	P-value		0.246	Power	0.229		Power-50%		0.385	P-value		0.109	Power	---		Power-50%		---	P-value		
19C/19	3	4	52.71	52.71	6	333.75	210.44	1.0	-	0.322	4	0.49	0.49	6	26.45	20.78	1.3	-	0.245									
1642C/833	3	5	5.10	4.57	4	9.07	6.80	0.8	-	0.632	5	4.23	3.71	4	5.88	5.26	0.9	-	0.799									
4537C/979	3	4	171.03	160.40	6	135.93	61.06	0.7	+	0.819	4	9.73	8.48	6	17.89	10.16	0.7	-	0.585									
Habitat Means			76.28	72.56		159.58	92.77		-			4.82	4.22		16.74	12.07		-										
Fisher's		Power	0.114		Power-50%		0.058	P-value		0.320	Power	0.047		Power-50%		0.124	P-value		0.204	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.194		Power-50%		0.167	P-value		0.384	Power	0.084		Power-50%		0.276	P-value		0.189	Power	---		Power-50%		---	P-value		

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

Table C-3.54. Algal Biomass. Chlorophyta. Prince William Sound. Exposed Rocky. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
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		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.59	0.49	6	0.00	0.00	1.2	+	0.295	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1642C/833	2	6	0.34	0.33	4	0.23	0.23	1.1	+	0.821	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00		- o	1.000
4537C/979	2	6	0.72	0.72	6	0.01	0.01	1.4	+	0.690	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.55	0.51		0.08	0.08		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.028		Power-50%		0.068	P-value		0.258	Power	---		Power-50%		---	P-value		0.519 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.115		Power-50%		0.249	P-value		0.237	Power	---		Power-50%		---	P-value		0.628	Power	---		Power-50%		---	P-value		0.500
19C/19	3	4	0.49	0.49	6	20.67	19.61	1.6	-	0.528	4	0.00	0.00	6	19.85	19.75	1.7	-	0.361	4	0.00	0.00	6	0.00	0.00		- o	1.000
1642C/833	3	5	0.09	0.09	4	0.48	0.47	1.1	-	0.395	5	0.00	0.00	4	0.00	0.00	1.6	+	0.374	5	0.00	0.00	4	0.00	0.00		- o	1.000
4537C/979	3	4	1.57	0.83	6	2.66	1.72	0.7	-	0.641	4	1.30	0.92	6	2.65	1.72	0.8	-	0.568	4	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.72	0.47		7.94	7.27		-			0.43	0.31		7.50	7.16		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.023		Power-50%		0.104	P-value		0.225	Power	0.000		Power-50%		0.091	P-value		0.385	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.047		Power-50%		0.234	P-value		0.168	Power	0.002		Power-50%		0.189	P-value		0.386	Power	---		Power-50%		---	P-value		0.500

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000
4537C/979	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.519 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.628	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	4	0.00	0.00	6	19.77	19.77	1.7	-	0.363	4	0.00	0.00	6	0.08	0.08	1.7	-	0.363	4	0.00	0.00	6	0.08	0.08	1.7	-	0.363
1642C/833	3	5	0.00	0.00	4	0.00	0.00	1.6	+	0.374	5	0.00	0.00	4	0.00	0.00		- o	1.000	5	0.00	0.00	4	0.00	0.00		- o	1.000
4537C/979	3	4	0.63	0.63	6	1.24	1.23	1.2	-	0.715	4	0.68	0.39	6	1.42	1.05	0.9	-	0.599	4	0.68	0.39	6	1.42	1.05	0.9	-	0.599
Habitat Means			0.21	0.21		7.00	7.00		-			0.23	0.13		0.50	0.38		-			0.23	0.13		0.50	0.38		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.437	Power	0.012		Power-50%		0.073	P-value		0.302	Power	0.010		Power-50%		0.010	P-value		0.302
Stouffer's		Power	0.001		Power-50%		---	P-value		0.454	Power	0.044		Power-50%		0.160	P-value		0.249	Power	0.038		Power-50%		0.171	P-value		0.249

(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-3.54. Algal Biomass. Chlorophyta. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.59	0.49	6	0.00	0.00	1.2	+	0.295	6	0.59	0.49	6	0.00	0.00	1.2	+	0.288
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.34	0.33	4	0.23	0.23	1.1	+	0.823	6	0.00	0.00	4	0.23	0.23	1.1	-	0.391
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.72	0.72	6	0.00	0.00	1.4	+	0.614	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.55	0.51		0.08	0.08		+			0.20	0.16		0.08	0.08		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.034		Power-50%		0.058	P-value		0.240	Power	0.001		Power-50%		0.001	P-value		0.322 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.125		Power-50%		0.264	P-value		0.211	Power	0.001		Power-50%		0.000	P-value		0.185
19C/19	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.49	0.49	6	0.81	0.81	1.2	-	0.771	4	0.24	0.24	6	0.81	0.81	1.4	-	0.597
1642C/833	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.09	0.09	4	0.00	0.00	1.5	-	0.528	5	0.08	0.08	4	0.00	0.00	1.5	-	0.819
4537C/979	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.27	0.27	6	0.01	0.00	1.1	-	0.956	4	0.00	0.00	6	0.00	0.00	1.7	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.28	0.28		0.28	0.27		+			0.11	0.11		0.27	0.27		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.059		Power-50%		0.027	P-value		0.530	Power	0.002		Power-50%		0.002	P-value		0.332
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.155		Power-50%		0.114	P-value		0.393	Power	0.025		Power-50%		---	P-value		0.215

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha melagonium (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	0.72	0.72	6	0.00	0.00	1.4	+	0.363	6	0.72	0.72	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.24	0.24		0.00	0.00		+			0.24	0.24		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.514	Power	---		Power-50%		---	P-value		0.514	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.363	Power	---		Power-50%		---	P-value		0.363	Power	---		Power-50%		---	P-value		0.500
19C/19	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	3	5	0.00	0.00	4	0.00	0.00	1.0	+	0.178	5	0.00	0.00	4	0.00	0.00	1.6	-	0.374	5	0.00	0.00	4	0.00	0.00	1.6	+	0.374
4537C/979	3	4	0.27	0.27	6	0.00	0.00	1.1	+	0.533	4	0.27	0.27	6	0.00	0.00	1.1	+	0.533	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.09	0.09		0.00	0.00		+			0.09	0.09		0.00	0.00		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.199		Power-50%		0.102	P-value		0.181	Power	---		Power-50%		---	P-value		0.287	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	0.349		Power-50%		0.207	P-value		0.121	Power	---		Power-50%		---	P-value		0.172	Power	---		Power-50%		---	P-value		0.335

(b) Chaetomorpha melagonium not included.

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

Table C-3.54. Algal Biomass. Chlorophyta. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

Site Pair	MVD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00		-	o	1.000	6	0.00	0.00	4	0.00	0.00		-	o	1.000	6	0.00	0.00	4	0.00	0.00		-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o	
Fisher's		Power	---		Power-50%		---		P-value		0.655	Power	---		Power-50%		---		P-value		0.655	Power	---		Power-50%		---		P-value		0.655
Stouffer's		Power	---		Power-50%		---		P-value		0.500	Power	---		Power-50%		---		P-value		0.500	Power	---		Power-50%		---		P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00	1.4	-		0.363	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
1642C/833	2	6	0.34	0.33	4	0.00	0.00	1.7	+		0.595	6	0.00	0.00	4	0.00	0.00		-	o	1.000	6	0.00	0.00	4	0.00	0.00		-	o	1.000
4537C/979	2	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.11	0.11		0.00	0.00		-				0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o	
Fisher's		Power	0.000		Power-50%		0.000		P-value		0.481 y	Power	---		Power-50%		---		P-value		0.655	Power	---		Power-50%		---		P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.000		P-value		0.507	Power	---		Power-50%		---		P-value		0.500	Power	---		Power-50%		---		P-value		0.500
19C/19	3	4	0.24	0.24	6	0.00	0.00	1.2	+		0.478	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	0.00	0.00	6	0.00	0.00		-	o	1.000
1642C/833	3	5	0.00	0.00	4	0.00	0.00	1.6	+		0.374	5	0.00	0.00	4	0.48	0.47	1.2	-		0.282	5	0.00	0.00	4	0.48	0.47	1.2	-		0.282
4537C/979	3	4	0.00	0.00	6	0.00	0.00	1.7	-		0.363	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.08	0.08		0.00	0.00		+				0.00	0.00		0.16	0.16		-				0.00	0.00		0.16	0.16		-		
Fisher's		Power	---		Power-50%		---		P-value		0.358	Power	0.001		Power-50%		---		P-value		0.350	Power	0.001		Power-50%		0.001		P-value		0.350
Stouffer's		Power	---		Power-50%		---		P-value		0.560	Power	0.000		Power-50%		---		P-value		0.303	Power	0.000		Power-50%		---		P-value		0.303

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

Site Pair	MVD	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00		-	o	1.000	6	0.00	0.00	4	0.00	0.00		-	o	1.000	6	0.00	0.00	4	0.00	0.00		-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o	
Fisher's		Power	---		Power-50%		---		P-value		0.655	Power	---		Power-50%		---		P-value		0.655	Power	---		Power-50%		---		P-value		0.655
Stouffer's		Power	---		Power-50%		---		P-value		0.500	Power	---		Power-50%		---		P-value		0.500	Power	---		Power-50%		---		P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00		-	o	1.000	6	0.00	0.00	4	0.00	0.00		-	o	1.000	6	0.00	0.00	4	0.00	0.00		-	o	1.000
4537C/979	2	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o	
Fisher's		Power	---		Power-50%		---		P-value		0.655	Power	---		Power-50%		---		P-value		0.655	Power	---		Power-50%		---		P-value		0.655
Stouffer's		Power	---		Power-50%		---		P-value		0.500	Power	---		Power-50%		---		P-value		0.500	Power	---		Power-50%		---		P-value		0.500
19C/19	3	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	0.00	0.00	6	0.00	0.00		-	o	1.000
1642C/833	3	5	0.00	0.00	4	0.48	0.47	1.2	-		0.282	5	0.00	0.00	4	0.00	0.00		-	o	1.000	5	0.00	0.00	4	0.00	0.00		-	o	1.000
4537C/979	3	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.16	0.16		-				0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o	
Fisher's		Power	0.000		Power-50%		---		P-value		0.350	Power	---		Power-50%		---		P-value		0.655	Power	---		Power-50%		---		P-value		0.655
Stouffer's		Power	0.000		Power-50%		---		P-value		0.303	Power	---		Power-50%		---		P-value		0.500	Power	---		Power-50%		---		P-value		0.500

(b) Enteromorpha clathrata and Enteromorpha intestinalis not analyzed.

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

Table C-3.55. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Alaria sp. (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	83.90	83.68	6	140.22	105.26	0.8	-	0.684	6	83.90	83.68	6	140.22	105.26	0.8	-	0.684	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	31.88	31.88	4	33.28	30.73	1.0	-	0.977	6	31.88	31.88	4	33.28	30.73	1.0	-	0.977	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	2331.82	1045.42	6	0.22	0.22	0.6	+	0.003	6	2331.20	1045.60	6	0.22	0.22	0.6	+	0.003	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			815.87	386.99		57.90	45.40		-			815.66	387.05		57.90	45.40		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.005		Power-50%		0.029	P-value		0.733xy	Power	0.004		Power-50%		0.047	P-value		0.733xy	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.151	P-value		0.990	Power	0.000		Power-50%		0.162	P-value		0.990	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	91.07	79.63	6	1143.58	604.17	0.7	-	0.697	6	11.79	10.50	6	1070.43	591.51	0.8	-	0.674	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	6	2421.99	1169.96	4	249.24	249.24	0.8	+	0.179	6	2421.99	1169.96	4	241.78	241.78	0.8	-	0.178	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	2055.02	801.06	6	1570.37	1035.00	0.5	+	0.719	6	2048.10	801.13	6	1561.97	1030.40	0.5	-	0.717	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1522.69	683.55		987.73	629.47		+			1493.96	660.53		958.06	621.23		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.040		Power-50%		0.051	P-value		0.259	Power	0.019		Power-50%		0.031	P-value		0.260	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.102		Power-50%		0.116	P-value		0.199	Power	0.049		Power-50%		0.111	P-value		0.201	Power	---		Power-50%		---	P-value		0.500
19C/19	3	4	86.94	71.18	6	503.43	187.32	0.6	-	0.122	4	85.25	69.49	6	484.23	189.50	0.6	-	0.140	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	3	5	3047.34	2568.75	4	1173.88	1173.48	1.0	+	0.563	5	3043.10	2565.08	4	1168.48	1168.08	1.0	+	0.563	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	4	246.78	145.14	6	1959.55	894.57	0.7	-	0.936	4	81.35	49.30	6	1936.87	891.42	0.8	-	0.836	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1127.02	928.36		1212.29	751.79		-			1069.90	894.62		1196.53	749.67		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.008		Power-50%		0.241	P-value		0.255	Power	0.009		Power-50%		0.264	P-value		0.258	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.021		Power-50%		0.289	P-value		0.423	Power	0.017		Power-50%		0.312	P-value		0.389	Power	---		Power-50%		---	P-value		0.500

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

		Fucus gardneri (P)								Laminaria sp. (P)								Petalonia fascia (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	83.90	83.68	6	140.22	105.26	0.8	-	0.684	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	31.88	31.88	4	33.28	30.73	1.0	-	0.977	6	0.00	0.00	4	0.00	0.00		-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	2331.20	1045.60	6	0.22	0.22	0.6	-	0.003	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			815.66	387.05		57.90	45.40		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.006		Power-50%		0.042	P-value		0.733xy	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		0.168	P-value		0.990	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	11.79	10.50	6	1070.43	591.51	0.8	-	0.674	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	6	2421.99	1169.96	4	241.78	241.78	0.8	+	0.178	6	0.00	0.00	4	0.00	0.00		-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
4537C/979	2	6	2047.82	800.93	6	1561.97	1030.40	0.5	+	0.718	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.28	0.28	6	0.00	0.00	1.4	-	0.363
Habitat Means			1493.86	660.46		958.06	621.23		+			0.00	0.00		0.00	0.00		o			0.09	0.09		0.00	0.00		-	
Fisher's		Power	0.022		Power-50%		0.042	P-value		0.260	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.514
Stouffer's		Power	0.055		Power-50%		0.116	P-value		0.201	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.363
19C/19	3	4	85.25	69.49	6	484.23	189.50	0.6	-	0.140	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	3	5	3043.10	2565.08	4	1168.48	1168.08	1.0	+	0.563	5	0.00	0.00	4	0.00	0.00		-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	4	79.70	50.11	6	1936.87	891.42	0.8	-	0.784	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	1.65	1.65	6	0.00	0.00	1.1	-	0.391
Habitat Means			1069.35	894.89		1196.53	749.67		-			0.00	0.00		0.00	0.00		o			0.55	0.55		0.00	0.00		-	
Fisher's		Power	0.010		Power-50%		0.222	P-value		0.249	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	0.020		Power-50%		0.284	P-value		0.368	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.236

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

Table C-3.55. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Browns									Analipus japonicus (P)										Chordaria flagelliformis (A)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
4537C/979	1	6	0.62	0.62	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.21	0.21		0.00	0.00		+			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655		Power	---		Power-50%		---	P-value		0.655	
Stouffer's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	
19C/19	2	6	70.58	70.40	6	10.47	9.67	1.2	+	0.749	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
4537C/979	2	6	0.88	0.75	6	0.00	0.00	1.2	+	0.287	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			23.82	23.72		3.49	3.22		+			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	0.002		Power-50%		0.005	P-value		0.299	Power	---		Power-50%		---	P-value		0.655		Power	---		Power-50%		---	P-value		0.655	
Stouffer's		Power	0.001		Power-50%		0.004	P-value		0.164	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	
19C/19	3	4	0.20	0.20	6	2.05	1.49	1.2	-	0.692	4	0.00	0.00	6	0.00	0.00	-	o	1.000		4	0.00	0.00	6	0.00	0.00	-	o	1.000	
1642C/833	3	5	0.01	0.01	4	0.00	0.00	1.3	+	0.537	5	0.00	0.00	4	0.00	0.00	1.6	+	0.374		5	0.00	0.00	4	0.00	0.00	-	o	1.000	
4537C/979	3	4	159.73	159.32	6	0.70	0.59	1.1	+	0.364	4	0.00	0.00	6	0.00	0.00	-	o	1.000		4	61.84	61.84	6	0.00	0.00	1.1	+	0.391	
Habitat Means			53.31	53.18		0.92	0.69		-			0.00	0.00		0.00	0.00		+				20.61	20.61		0.00	0.00		-		
Fisher's		Power	0.031		Power-50%		0.028	P-value		0.332	Power	---		Power-50%		---	P-value		0.409		Power	---		Power-50%		---	P-value		0.419	
Stouffer's		Power	0.071		Power-50%		0.143	P-value		0.170	Power	---		Power-50%		---	P-value		0.335		Power	---		Power-50%		---	P-value		0.236	

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

Site Pair	MVD	Cystoseira geminata (P)									Total Dictyosiphon (A)										Dictyosiphon foeniculaceus (A)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.27	0.27	6	0.00	0.00	1.4	+	0.363		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.09	0.09		0.00	0.00		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403		Power	---		Power-50%		---	P-value		0.655	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.223		Power	---		Power-50%		---	P-value		0.500	
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655		Power	---		Power-50%		---	P-value		0.655	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	
19C/19	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000		4	0.00	0.00	6	0.00	0.00	-	o	1.000	
1642C/833	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.01	0.01	4	0.00	0.00	1.6	+	0.374		5	0.00	0.00	4	0.00	0.00	1.6	+	0.374	
4537C/979	3	4	4.38	4.38	6	0.00	0.00	1.1	+	0.391	4	36.61	36.61	6	0.00	0.00	1.1	+	0.391		4	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			1.46	1.46		0.00	0.00		+			12.21	12.21		0.00	0.00		+				0.00	0.00		0.00	0.00		-		
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.238		Power	---		Power-50%		---	P-value		0.409	
Stouffer's		Power	---		Power-50%		---	P-value		0.236	Power	---		Power-50%		---	P-value		0.126		Power	---		Power-50%		---	P-value		0.335	

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

Table C-3.55. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

Site Pair	MVD	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Eudesme virescens (AE) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.27	0.27	6	0.00	0.00	1.4	-	0.363	6	0.35	0.35	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.09	0.09		0.00	0.00		+			0.12	0.12		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	70.58	70.40	6	10.47	9.67	1.2	+	0.749
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.88	0.75	6	0.00	0.00	1.2	-	0.287
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			23.82	23.72		3.49	3.22		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.002		Power-50%		0.002	P-value		0.299
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.000	P-value		0.164
19C/19	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.20	0.20	6	2.05	1.49	1.2	-	0.692
1642C/833	3	5	0.00	0.00	4	0.00	0.00	1.6	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	1.0	-	0.879
4537C/979	3	4	36.61	36.61	6	0.00	0.00	1.1	+	0.391	4	6.78	6.78	6	0.00	0.00	1.1	+	0.391	4	50.13	49.72	6	0.70	0.59	1.1	-	0.387
Habitat Means			12.20	12.20		0.00	0.00		+			2.26	2.26		0.00	0.00		+			16.78	16.64		0.92	0.69		-	
Fisher's		Power	---		Power-50%		---	P-value		0.238	Power	---		Power-50%		---	P-value		0.419	Power	0.002		Power-50%		0.002	P-value		0.650 y
Stouffer's		Power	---		Power-50%		---	P-value		0.126	Power	---		Power-50%		---	P-value		0.236	Power	0.015		Power-50%		0.129	P-value		0.708

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.22	0.22	6	59.89	48.56	1.1	-	0.267	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.22	0.22	6	59.39	48.56	1.2	-	0.267
1642C/833	2	6	0.00	0.00	4	0.33	0.33	1.1	-	0.469	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.33	0.33	1.1	-	0.469
4537C/979	2	6	1.15	1.14	6	7.84	5.14	0.8	-	0.652	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.97	0.97	6	7.84	5.14	0.8	-	0.489
Habitat Means			0.46	0.45		22.68	18.01		-			0.00	0.00		0.00	0.00		-			0.40	0.40		22.52	18.01		-	
Fisher's		Power	0.123		Power-50%		0.033	P-value		0.164	Power	---		Power-50%		---	P-value		0.403	Power	0.172		Power-50%		0.172	P-value		0.136
Stouffer's		Power	0.327		Power-50%		0.208	P-value		0.155	Power	---		Power-50%		---	P-value		0.223	Power	0.369		Power-50%		0.132	P-value		0.112
19C/19	3	4	0.24	0.24	6	6.60	3.01	0.8	-	0.248	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	6.58	3.01	0.8	-	0.080
1642C/833	3	5	4.23	3.70	4	5.41	5.40	0.9	-	0.858	5	0.00	0.00	4	0.00	0.00	1.0	-	0.879	5	2.82	2.31	4	5.40	5.40	0.9	-	0.648
4537C/979	3	4	0.00	0.00	6	15.24	10.76	1.2	-	0.216	4	0.00	0.00	6	0.00	0.00	1.7	-	0.363	4	0.00	0.00	6	15.02	10.82	1.2	-	0.224
Habitat Means			1.49	1.32		9.08	6.39		-			0.00	0.00		0.00	0.00		-			0.94	0.77		9.00	6.41		-	
Fisher's		Power	0.046		Power-50%		0.008	P-value		0.112	Power	---		Power-50%		---	P-value		0.375	Power	---		Power-50%		---	P-value		0.042
Stouffer's		Power	---		Power-50%		0.007	P-value		0.077	Power	---		Power-50%		---	P-value		0.202	Power	---		Power-50%		---	P-value		0.045

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

Table C-3.55. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Colpomenia peregrina (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.50	0.50	1.4	-	0.363	6	8.48	6.29	6	2.79	2.78	0.9	+	0.427	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	7.14	7.14	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	0.18	0.17	6	0.00	0.00	1.4	+	0.358	6	4.89	2.70	6	0.56	0.48	0.7	+	0.216	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.06	0.06		0.17	0.17		+			4.46	3.00		3.50	3.47		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.515 y	Power	0.011		Power-50%		0.021	P-value		0.240	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.297	Power	0.004		Power-50%		0.020	P-value		0.203	Power	---		Power-50%		---	P-value		0.500
19C/19	3	4	0.24	0.24	6	0.02	0.02	1.0	+	0.641	4	1.25	1.25	6	10.54	7.87	1.2	-	0.553	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	3	5	1.40	1.40	4	0.00	0.00	1.6	+	0.374	5	0.00	0.00	4	0.00	0.00	1.6	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	4	0.00	0.00	6	0.22	0.22	1.7	-	0.363	4	5.65	2.63	6	4.60	2.88	0.6	+	0.807	4	0.38	0.38	6	0.00	0.00	1.1	-	0.391
Habitat Means			0.55	0.55		0.08	0.08		+			2.30	1.29		5.05	3.58		+			0.13	0.13		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.420	Power	0.062		Power-50%		0.233	P-value		0.444 y	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	---		Power-50%		---	P-value		0.585	Power	0.125		Power-50%		0.342	P-value		0.317	Power	---		Power-50%		---	P-value		0.236

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

Site Pair	MVD	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.23	0.23	1.4	-	0.363	6	8.48	6.29	6	2.55	2.55	0.9	+	0.403	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	7.14	7.14	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	0.32	0.31	6	0.00	0.00	1.4	+	0.392	6	4.58	2.78	6	0.56	0.48	0.8	+	0.304	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.11	0.11		0.08	0.08		-			4.35	3.02		3.42	3.39		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.514 y	Power	0.006		Power-50%		0.012	P-value		0.285	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.684	Power	0.002		Power-50%		0.008	P-value		0.252	Power	---		Power-50%		---	P-value		0.500
19C/19	3	4	0.00	0.00	6	1.04	1.03	1.7	-	0.362	4	1.25	1.25	6	9.51	6.90	1.1	-	0.575	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	3	5	0.00	0.00	4	0.00	0.00	1.6	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	4	5.00	2.47	6	4.57	2.89	0.6	+	0.920	4	0.27	0.27	6	0.02	0.02	1.0	+	0.650	4	0.05	0.05	6	2.15	2.01	1.6	-	0.639
Habitat Means			1.67	0.82		1.87	1.31		+			0.51	0.51		3.18	2.31		-			0.02	0.02		0.72	0.67		-	
Fisher's		Power	0.007		Power-50%		0.118	P-value		0.505 y	Power	0.000		Power-50%		---	P-value		0.587	Power	0.000		Power-50%		0.000	P-value		0.537
Stouffer's		Power	0.015		Power-50%		0.200	P-value		0.393	Power	0.000		Power-50%		---	P-value		0.592	Power	0.000		Power-50%		---	P-value		0.347

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

Table C-3.55. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

		Ralfsia fungiformis (P)																				
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P												
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000												
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000												
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000												
Habitat Means			0.00	0.00		0.00	0.00		o													
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---	Power-50%	---	P-value	Power	---	Power-50%	---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---	Power-50%	---	P-value	Power	---	Power-50%	---	P-value		
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000												
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000												
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000												
Habitat Means			0.00	0.00		0.00	0.00		o													
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---	Power-50%	---	P-value	Power	---	Power-50%	---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---	Power-50%	---	P-value	Power	---	Power-50%	---	P-value		
19C/19	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000												
1642C/833	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000												
4537C/979	3	4	0.05	0.05	6	2.15	2.01	1.6	-	0.639												
Habitat Means			0.02	0.02		0.72	0.67		-													
Fisher's		Power	0.000		Power-50%		---	P-value		0.537	Power	---	Power-50%	---	P-value	Power	---	Power-50%	---	P-value		
Stouffer's		Power	0.000		Power-50%		---	P-value		0.347	Power	---	Power-50%	---	P-value	Power	---	Power-50%	---	P-value		

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

Table C-3.56. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Constantinea simplex (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	1.66	1.65	1.1	-	0.389	6	0.00	0.00	4	0.03	0.03	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	19.12	18.00	6	0.52	0.52	1.3	+	0.240	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			6.37	6.00		0.73	0.72		+			0.00	0.00		0.01	0.01		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.008	P-value		0.232	Power	---		Power-50%		---	P-value		0.234	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.013	P-value		0.209	Power	---		Power-50%		---	P-value		0.120	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	79.14	46.61	6	187.23	158.62	0.9	-	0.528	6	0.18	0.18	6	7.59	5.67	1.0	-	0.423	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	6	5.22	5.08	4	133.77	133.77	1.1	-	0.831	6	0.00	0.00	4	0.53	0.53	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	360.63	174.42	6	111.91	68.46	0.6	+	0.214	6	0.54	0.51	6	7.30	6.04	1.1	-	0.734	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			148.33	75.37		144.30	120.28		-			0.24	0.23		5.14	4.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.010		Power-50%		0.069	P-value		0.590 y	Power	0.154		Power-50%		0.000	P-value		0.212	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.026		Power-50%		0.170	P-value		0.781	Power	0.355		Power-50%		0.000	P-value		0.183	Power	---		Power-50%		---	P-value		0.500
19C/19	3	4	58.67	58.67	6	1059.05	507.21	0.8	-	0.098	4	0.00	0.00	6	80.43	51.39	1.1	-	0.178	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	3	5	6.43	5.50	4	4.63	1.81	0.8	+	0.789	5	0.00	0.00	4	0.53	0.53	1.2	-	0.585	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	4	604.07	511.66	6	720.86	342.53	0.6	-	0.848	4	16.90	11.74	6	216.96	99.57	0.7	-	0.440	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			223.06	191.94		594.85	283.85		-			5.64	3.92		99.30	50.49		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.117		Power-50%		0.108	P-value		0.188	Power	0.055		Power-50%		0.079	P-value		0.112	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.207		Power-50%		0.250	P-value		0.321	Power	0.166		Power-50%		0.191	P-value		0.104	Power	---		Power-50%		---	P-value		0.500

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

		Gigartinaceae Group (P) (a)								Total Palmaria (A)								Palmaria spp. (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.12	0.12	6	7.59	5.67	1.0	-	0.404	6	0.07	0.07	6	0.00	0.00	1.4	+	0.363	6	0.07	0.07	6	0.00	0.00	1.4	+	0.363
1642C/833	2	6	0.00	0.00	4	0.53	0.53	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	0.54	0.51	6	7.30	6.04	1.1	-	0.734	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.22	0.21		5.14	4.08		-			0.02	0.02		0.00	0.00		+			0.02	0.02		0.00	0.00		-	
Fisher's		Power	0.158		Power-50%		0.001	P-value		0.206	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.338		Power-50%		0.001	P-value		0.181	Power	---		Power-50%		---	P-value		0.406	Power	---		Power-50%		---	P-value		0.406
19C/19	3	4	0.00	0.00	6	28.50	24.78	1.5	-	0.302	4	0.00	0.00	6	16.15	13.66	1.5	-	0.290	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.53	0.53	1.2	-	0.539	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	4	16.25	11.74	6	165.82	88.36	0.8	-	0.453	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			5.42	3.91		64.77	37.71		-			0.00	0.00		5.56	4.73		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.008		Power-50%		0.034	P-value		0.228	Power	0.020		Power-50%		---	P-value		0.248	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.004		Power-50%		0.033	P-value		0.185	Power	0.012		Power-50%		---	P-value		0.284	Power	---		Power-50%		---	P-value		0.500

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.56. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

		Palmaria callophylloides (A)								Palmaria hecatensis (A)								Palmaria mollis (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	16.15	13.66	1.5	-	0.290	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	3	5	0.00	0.00	4	0.00	0.00	1.6	+	0.374	5	0.00	0.00	4	0.53	0.53	1.2	-	0.391	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		5.56	4.73		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	0.008		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.335	Power	0.002		Power-50%		---	P-value		0.246	Power	---		Power-50%		---	P-value		0.500

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

		Phycodrys riggii (A)								Porphyra sp. (A)								Tokidadendron kurilensis (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.03	0.03	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.01	0.01		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	4	0.00	0.00	6	0.85	0.85	1.7	-	0.363	4	0.00	0.00	6	34.08	24.91	1.3	-	0.230	4	0.00	0.00	6	0.85	0.85	1.7	-	0.363
1642C/833	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	1.6	-	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	4	0.00	0.00	6	12.32	8.92	1.3	-	0.226	4	0.65	0.65	6	0.34	0.34	0.9	-	0.645	4	0.00	0.00	6	38.48	38.26	1.7	-	0.361
Habitat Means			0.00	0.00		4.39	3.26		-			0.22	0.22		11.47	8.41		-			0.00	0.00		13.11	13.04		-	
Fisher's		Power	0.001		Power-50%		---	P-value		0.165	Power	0.002		Power-50%		0.005	P-value		0.439 y	Power	0.000		Power-50%		0.000	P-value		0.222
Stouffer's		Power	0.001		Power-50%		---	P-value		0.105	Power	0.004		Power-50%		0.033	P-value		0.309	Power	0.000		Power-50%		---	P-value		0.158

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

Table C-3.56. Algal Biomass. Rhodophyta. Prince William Sound, Exposed Rocky. June 1990. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds									Ahnfeltia fastigata (P)										Cryptosiphonia woodii (A)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
19C/19	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
1642C/833	1	6	0.00	0.00	4	1.63	1.62	1.1	-	0.389	6	0.00	0.00	4	0.00	0.00	-	o	1.000		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
4537C/979	1	6	19.12	18.00	6	0.52	0.52	1.3	+	0.240	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.14	0.13	6	0.00	0.00	1.4	-	0.357	
Habitat Means			6.37	6.00		0.72	0.71		+			0.00	0.00		0.00	0.00		o				0.05	0.04		0.00	0.00		-		
Fisher's		Power	0.001		Power-50%		0.004	P-value		0.232	Power	---		Power-50%		---	P-value		0.655		Power	0.000		Power-50%		0.000	P-value		0.399	
Stouffer's		Power	0.000		Power-50%		0.005	P-value		0.209	Power	---		Power-50%		---	P-value		0.500		Power	0.000		Power-50%		0.000	P-value		0.220	
19C/19	2	6	77.23	47.17	6	177.70	156.06	0.9	-	0.552	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.45	0.45	6	1.92	1.52	0.9	-	0.375	
1642C/833	2	6	5.22	5.08	4	128.10	128.10	1.1	-	0.829	6	0.12	0.08	4	0.00	0.00	1.2	+	0.220		6	0.00	0.00	4	0.00	0.00	-	o	1.000	
4537C/979	2	6	349.30	177.24	6	98.74	60.04	0.6	+	0.210	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363		6	3.35	3.08	6	0.20	0.20	1.2	+	0.480	
Habitat Means			143.92	76.50		134.85	114.73		-			0.04	0.03		0.00	0.00		+				1.27	1.18		0.71	0.57		-		
Fisher's		Power	0.008		Power-50%		0.061	P-value		0.601 y	Power	0.047		Power-50%		0.059	P-value		0.162		Power	0.002		Power-50%		0.002	P-value		0.508 y	
Stouffer's		Power	0.025		Power-50%		0.173	P-value		0.786	Power	---		Power-50%		---	P-value		0.089		Power	0.000		Power-50%		0.004	P-value		0.641	
19C/19	3	4	8.57	8.57	6	695.70	322.49	0.8	-	0.171	4	0.00	0.00	6	0.00	0.00	-	o	1.000		4	0.68	0.68	6	150.94	114.23	1.3	-	0.343	
1642C/833	3	5	5.65	5.64	4	1.46	0.88	1.3	+	0.739	5	0.00	0.00	4	0.00	0.00	1.6	+	0.374		5	0.00	0.00	4	0.00	0.00	-	o	1.000	
4537C/979	3	4	582.57	496.71	6	466.35	235.44	0.6	+	0.819	4	0.00	0.00	6	0.00	0.00	-	o	1.000		4	4.60	2.68	6	49.05	22.74	0.7	-	0.383	
Habitat Means			198.93	170.31		387.83	186.27		+			0.00	0.00		0.00	0.00		-				1.76	1.12		66.66	45.66		-		
Fisher's		Power	0.001		Power-50%		0.065	P-value		0.683 y	Power	---		Power-50%		---	P-value		0.409		Power	0.012		Power-50%		0.012	P-value		0.222	
Stouffer's		Power	0.002		Power-50%		0.208	P-value		0.502	Power	---		Power-50%		---	P-value		0.335		Power	0.011		Power-50%		0.196	P-value		0.164	

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

Site Pair	MVD	*Dumontia contorta (AE)*									Endocladia muricata (P)										Gloiopeltis furcata (A)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.15	1.15	1.1	-	0.390		6	0.00	0.00	4	0.48	0.48	1.1	-	0.391	
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.52	0.52	1.4	-	0.363	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.38	0.38		-				0.00	0.00		0.33	0.33		-		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.001		Power-50%		---	P-value		0.418		Power	---		Power-50%		---	P-value		0.314	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.340		Power	---		Power-50%		---	P-value		0.175	
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	1.03	1.03	6	0.84	0.84	1.0	+	0.884	
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	7.36	7.36	1.1	-	0.391		6	1.58	1.58	4	0.00	0.00	1.7	+	0.363	
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	9.62	9.52	6	0.00	0.00	1.4	+	0.076	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		2.45	2.45		-				4.08	4.04		0.28	0.28		-		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419		Power	---		Power-50%		---	P-value		0.072	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.341		Power	---		Power-50%		---	P-value		0.025	
19C/19	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000		4	0.00	0.00	6	0.00	0.00	-	o	1.000	
1642C/833	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	5.64	5.64	4	1.45	0.87	1.3	+	0.519		5	0.00	0.00	4	0.00	0.00	1.6	-	0.374	
4537C/979	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000		4	0.00	0.00	6	4.22	4.22	1.7	-	0.363	
Habitat Means			0.00	0.00		0.00	0.00		o			1.88	1.88		0.48	0.29		+				0.00	0.00		1.41	1.41		-		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.002		Power-50%		---	P-value		0.485		Power	---		Power-50%		---	P-value		0.517	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		---	P-value		0.379		Power	---		Power-50%		---	P-value		0.369	

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

Table C-3.56. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

Site Pair	MVD	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00		-	o 1.000
4537C/979	1	6	18.98	18.02	6	0.00	0.00	1.3	+	0.251	6	18.98	18.02	6	0.00	0.00	1.3	+	0.251	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			6.33	6.01		0.00	0.00		+			6.33	6.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.426	Power	0.000		Power-50%		0.000	P-value		0.426	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.291	Power	0.000		Power-50%		0.000	P-value		0.291	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	75.75	46.27	6	174.95	154.63	0.9	-	0.553	6	39.52	37.29	6	174.95	154.63	1.0	-	0.581	6	36.23	34.50	6	0.00	0.00	1.3	+	0.342
1642C/833	2	6	3.52	3.52	4	120.74	120.74	1.1	-	0.662	6	3.52	3.52	4	120.74	120.74	1.1	-	0.662	6	0.00	0.00	4	0.00	0.00		-	o 1.000
4537C/979	2	6	336.33	180.62	6	98.54	59.90	0.6	-	0.240	6	223.91	171.03	6	98.54	59.90	0.8	-	0.505	6	112.42	106.88	6	0.00	0.00	1.3	+	0.341
Habitat Means			138.53	76.80		131.41	111.76		-			88.98	70.61		131.41	111.76		-			49.55	47.13		0.00	0.00		-	
Fisher's		Power	0.002		Power-50%		0.100	P-value		0.539 y	Power	0.015		Power-50%		0.116	P-value		0.510	Power	0.008		Power-50%		0.008	P-value		0.206
Stouffer's		Power	0.006		Power-50%		0.207	P-value		0.733	Power	0.029		Power-50%		0.215	P-value		0.581	Power	0.004		Power-50%		0.005	P-value		0.148
19C/19	3	4	7.62	7.62	6	531.59	310.83	1.0	-	0.188	4	7.62	7.62	6	270.62	221.66	1.4	-	0.203	4	0.00	0.00	6	260.97	242.92	1.6	-	0.332
1642C/833	3	5	0.01	0.01	4	0.00	0.00	1.2	+	0.574	5	0.01	0.01	4	0.00	0.00	1.2	+	0.574	5	0.00	0.00	4	0.00	0.00		-	o 1.000
4537C/979	3	4	458.04	410.87	6	134.71	59.44	0.8	+	0.635	4	43.21	22.33	6	65.95	60.21	1.0	-	0.776	4	414.83	414.83	6	68.76	41.12	1.0	+	0.601
Habitat Means			155.22	139.50		222.10	123.42		+			16.95	9.99		112.19	93.96		-			138.28	138.28		109.91	94.68		-	
Fisher's		Power	0.003		Power-50%		0.055	P-value		0.545 y	Power	0.008		Power-50%		0.128	P-value		0.308	Power	0.020		Power-50%		0.020	P-value		0.458 y
Stouffer's		Power	0.004		Power-50%		0.163	P-value		0.373	Power	0.019		Power-50%		0.252	P-value		0.382	Power	0.017		Power-50%		---	P-value		0.574

(b) Neorhodomela larix not included.

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

Site Pair	MVD	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00		-	o 1.000	6	0.00	0.00	4	0.00	0.00		-	o 1.000	6	0.00	0.00	4	0.00	0.00		-	o 1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00		-	o 1.000	6	0.00	0.00	4	0.00	0.00		-	o 1.000	6	0.00	0.00	4	0.00	0.00		-	o 1.000
4537C/979	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.223
19C/19	3	4	0.00	0.00	6	0.00	0.00		-	o 1.000	4	0.00	0.00	6	3.85	3.85	1.7	-	0.363	4	0.28	0.28	6	9.32	9.32	1.7	-	0.849
1642C/833	3	5	0.00	0.00	4	0.00	0.00		-	o 1.000	5	0.00	0.00	4	0.00	0.00		-	o 1.000	5	0.00	0.00	4	0.00	0.00	1.0	-	0.879
4537C/979	3	4	0.00	0.00	6	10.08	10.08	1.7	-	0.363	4	92.93	92.59	6	249.70	173.37	0.9	-	0.513	4	27.00	27.00	6	18.58	13.99	0.8	+	0.768
Habitat Means			0.00	0.00		3.36	3.36		-			30.98	30.86		84.52	59.07		-			9.09	9.09		9.30	7.77		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.001		Power-50%		0.001	P-value		0.275	Power	0.006		Power-50%		0.006	P-value		0.632
Stouffer's		Power	---		Power-50%		---	P-value		0.223	Power	0.001		Power-50%		0.001	P-value		0.216	Power	0.055		Power-50%		---	P-value		0.549

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

Table C-3.56. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

it ⊓W	MVD	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Antithamnion/Antithamnionella (A) (b) N	C	SE	N	O	SE	CV	D	P	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.77	0.77	6	0.01	0.00	1.4	+	0.906	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	4.26	4.26	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	6.70	3.86	6	3.36	3.34	0.7	+	0.528	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.49	1.54		2.54	2.53		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.007		Power-50%		0.001	P-value		0.585 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.003		Power-50%		0.004	P-value		0.441	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	4	25.83	25.83	6	1.04	0.61	1.1	+	0.572	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	3	5	0.77	0.77	4	0.75	0.75	1.0	+	0.987	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	4	1.55	1.55	6	7.71	4.71	0.9	-	0.335	4	0.00	0.00	6	0.00	0.00	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			9.38	9.38		3.16	2.02		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.011		Power-50%		---	P-value		0.638	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.032		Power-50%		---	P-value		0.743	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.500

(b) Genera not separated.

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

Site Pair	MVD	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P	Ceramium sp. (A) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.341
19C/19	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.77	0.77	6	0.00	0.00	1.4	+	0.629
1642C/833	2	6	0.00	0.00	4	1.48	1.48	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	2.79	2.79	1.1	-	0.391
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	6.70	3.86	6	3.36	3.34	0.7	+	0.528
Habitat Means			0.00	0.00		0.49	0.49		-			0.00	0.00		0.00	0.00		o			2.49	1.54		2.05	2.04		+	
Fisher's		Power	---		Power-50%		---	P-value		0.234	Power	---		Power-50%		---	P-value		0.655	Power	0.008		Power-50%		0.008	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.258	Power	---		Power-50%		---	P-value		0.500	Power	0.004		Power-50%		0.005	P-value		0.404
19C/19	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	25.83	25.83	6	1.04	0.61	1.1	+	0.572
1642C/833	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	1.6	+	0.374	5	0.77	0.77	4	0.75	0.75	1.0	+	0.989
4537C/979	3	4	0.00	0.00	6	2.32	2.32	1.7	-	0.363	4	0.00	0.00	6	2.19	1.69	1.3	-	0.252	4	1.55	1.55	6	2.85	2.12	0.9	-	0.669
Habitat Means			0.00	0.00		0.77	0.77		-			0.00	0.00		0.73	0.56		-			9.38	9.38		1.55	1.16		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.001		Power-50%		---	P-value		0.430	Power	0.021		Power-50%		0.021	P-value		0.579
Stouffer's		Power	---		Power-50%		---	P-value		0.223	Power	0.000		Power-50%		---	P-value		0.297	Power	0.054		Power-50%		---	P-value		0.581

Table C-3.56. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

Site Pair	MVD	Scagelia/Hollenbergia (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.95	0.78	6	1.93	1.93	1.0	-	0.648	6	0.95	0.78	6	1.93	1.93	1.0	-	0.648
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.88	0.88	1.1	-	0.391	6	0.00	0.00	4	0.88	0.88	1.1	-	0.391
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	5	4.10	4.10	6	2.51	1.98	1.0	+	0.734	6	4.10	4.10	6	2.51	1.98	1.0	-	0.734
Habitat Means			0.00	0.00		0.00	0.00		o			1.68	1.63		1.77	1.60		-			1.68	1.63		1.77	1.60		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.010		Power-50%		0.001	P-value		0.376	Power	0.009		Power-50%		0.009	P-value		0.376
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.054		Power-50%		0.001	P-value		0.403	Power	0.065		Power-50%		0.001	P-value		0.403
19C/19	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	24.02	24.02	6	90.00	86.06	1.3	-	0.563	4	24.02	24.02	6	90.00	86.06	1.3	-	0.563
1642C/833	3	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	1.90	1.90	1.2	-	0.390	5	0.00	0.00	4	1.90	1.90	1.2	-	0.390
4537C/979	3	4	0.00	0.00	6	0.35	0.32	1.6	-	0.326	4	0.00	0.00	6	0.97	0.97	1.7	-	0.575	4	0.00	0.00	6	0.97	0.97	1.7	-	0.575
Habitat Means			0.00	0.00		0.12	0.11		-			8.01	8.01		30.96	29.64		-			8.01	8.01		30.96	29.64		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.380	Power	0.029		Power-50%		---	P-value		0.217	Power	0.025		Power-50%		0.025	P-value		0.217
Stouffer's		Power	0.000		Power-50%		---	P-value		0.205	Power	0.133		Power-50%		---	P-value		0.151	Power	0.130		Power-50%		---	P-value		0.151

(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 tes
z Only one site pair.

Site Pair	MVD	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Calcified Reds N	C	SE	N	O	SE	CV	D	P	Articulata Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.95	0.78	6	1.93	1.93	1.0	-	0.648	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.88	0.88	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
4537C/979	2	6	4.10	4.10	6	2.51	1.98	1.0	+	0.734	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.68	1.63		1.77	1.60		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.008		Power-50%		0.001	P-value		0.376	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	0.055		Power-50%		0.000	P-value		0.403	Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.341
19C/19	3	4	24.02	24.02	6	90.00	86.06	1.3	-	0.563	4	0.24	0.24	6	191.90	190.92	1.7	-	0.604	4	0.24	0.24	6	191.90	190.92	1.7	-	0.604
1642C/833	3	5	0.00	0.00	4	1.90	1.90	1.2	-	0.390	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	4	0.00	0.00	6	0.97	0.97	1.7	-	0.575	4	3.05	2.30	6	28.88	28.77	1.6	-	0.839	4	3.05	2.30	6	28.88	28.77	1.6	-	0.839
Habitat Means			8.01	8.01		30.96	29.64		-			1.10	0.85		73.59	73.23		-			1.10	0.85		73.59	73.23		-	
Fisher's		Power	0.031		Power-50%		---	P-value		0.217	Power	0.000		Power-50%		0.064	P-value		0.479	Power	0.000		Power-50%		0.000	P-value		0.479
Stouffer's		Power	0.135		Power-50%		---	P-value		0.151	Power	0.000		Power-50%		0.059	P-value		0.380	Power	0.001		Power-50%		0.046	P-value		0.380

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

Table C-3.57. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.33	0.33	6	2.67	1.45	0.7	-	0.173	6	30.92	30.92	6	253.92	133.99	0.7	-	0.238	6	30.92	30.92	6	251.95	132.97	0.7	-	0.238
1642C/833	1	6	0.17	0.17	4	1.50	0.65	0.5	-	0.042	6	1102.22	1102.22	4	821.38	391.87	1.0	+	0.847	6	1102.22	1102.22	4	821.38	391.88	1.0	-	0.847
4537C/979	1	6	2.00	0.68	6	0.00	0.00	0.5	+	0.033	6	270.14	183.23	6	0.00	0.00	1.0	+	0.200	6	269.12	183.51	6	0.00	0.00	1.0	-	0.202
Habitat Means			0.83	0.39		1.39	0.70		-			467.76	438.79		358.43	175.29		+			467.42	438.88		357.78	174.95		+	
Fisher's		Power	---		Power-50%		---	P-value		0.049x	Power	0.015		Power-50%		0.046	P-value		0.362	Power	0.017		Power-50%		0.017	P-value		0.364
Stouffer's		Power	0.044		Power-50%		0.474	P-value		0.677	Power	0.025		Power-50%		0.147	P-value		0.196	Power	0.027		Power-50%		0.173	P-value		0.197
19C/19	2	6	3.33	1.23	6	6.83	2.85	0.4	-	0.285	6	73.16	61.01	6	866.16	445.69	0.7	-	0.626	6	65.80	56.32	6	820.72	423.87	0.7	-	0.614
1642C/833	2	4	1.25	0.25	4	8.00	3.56	0.5	-	0.154	4	1425.60	573.92	4	693.68	370.14	0.5	+	0.325	4	1425.55	573.88	4	497.82	200.09	0.4	+	0.178
4537C/979	2	5	4.80	0.86	6	1.33	1.33	0.4	+	0.067	5	1101.82	294.42	6	16.12	16.12	0.3	+	0.002	5	1079.69	299.06	6	4.28	4.28	0.4	+	0.001
Habitat Means			3.13	0.78		5.39	2.58		-			866.86	309.78		525.32	277.31		+			857.01	309.75		440.94	209.41		+	
Fisher's		Power	0.630		Power-50%		1.000	P-value		0.168x	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.002
Stouffer's		Power	0.150		Power-50%		1.000	P-value		0.716	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.001
19C/19	3	5	7.80	2.33	5	5.20	2.46	0.4	+	0.465	5	366.60	222.94	5	723.21	423.06	0.6	-	0.477	5	356.68	219.49	5	717.94	420.33	0.6	-	0.468
1642C/833	3	5	8.60	2.52	3	12.00	6.11	0.4	-	0.565	5	782.29	342.31	3	900.35	692.79	0.6	-	0.868	5	763.90	333.68	3	834.32	688.39	0.6	-	0.920
4537C/979	3	4	9.25	2.66	5	7.60	1.47	0.2	+	0.583	4	779.80	319.74	5	1591.94	681.93	0.5	-	0.356	4	666.83	299.94	5	1536.11	689.86	0.5	-	0.327
Habitat Means			8.55	2.50		8.27	3.35		+			642.90	295.00		1071.83	599.26		-			595.81	284.37		1029.46	599.53		-	
Fisher's		Power	0.157		Power-50%		0.694	P-value		0.418	Power	0.094		Power-50%		0.194	P-value		0.239	Power	0.086		Power-50%		0.086	P-value		0.232
Stouffer's		Power	0.098		Power-50%		0.754	P-value		0.354	Power	0.111		Power-50%		0.280	P-value		0.150	Power	0.104		Power-50%		0.224	P-value		0.145

(a) 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.

		Annuals (A)								Ephemerals (AE)																
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	1.97	1.36	1.0	-	0.206	6	0.00	0.00	6	0.55	0.55	1.4	-	0.363									
1642C/833	1	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	~	o	1.000									
4537C/979	1	6	1.02	0.74	6	0.00	0.00	1.0	+	0.228	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363									
Habitat Means			0.34	0.25		0.66	0.45		-			0.00	0.00		0.18	0.18		-										
Fisher's		Power	0.001		Power-50%		0.000	P-value		0.234	Power	---		Power-50%		---	P-value		0.519	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.606	Power	---		Power-50%		---	P-value		0.700	Power	---		Power-50%		---	P-value		
19C/19	2	6	7.35	4.95	6	45.44	22.68	0.6	-	0.565	6	0.00	0.00	6	1.27	0.74	0.8	-	0.147									
1642C/833	2	4	0.05	0.05	4	195.85	193.32	1.4	-	0.167	4	0.00	0.00	4	124.51	124.50	1.4	-	0.391									
4537C/979	2	5	22.14	12.03	6	11.84	11.84	0.7	+	0.560	5	2.10	2.10	6	0.06	0.06	1.2	+	0.722									
Habitat Means			9.85	5.68		84.38	75.94		-			0.70	0.70		41.95	41.77		-										
Fisher's		Power	0.031		Power-50%		0.178	P-value		0.228	Power	0.039		Power-50%		---	P-value		0.153	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.063		Power-50%		0.310	P-value		0.373	Power	0.154		Power-50%		---	P-value		0.311	Power	---		Power-50%		---	P-value		
19C/19	3	5	9.92	6.46	5	5.27	3.31	0.7	+	0.540	5	0.03	0.02	5	0.49	0.31	0.9	-	0.936									
1642C/833	3	5	18.38	11.10	3	66.03	39.13	0.5	-	0.189	5	4.22	2.62	3	12.02	9.39	0.6	-	0.350									
4537C/979	3	4	112.98	53.33	5	55.83	50.41	0.6	+	0.465	4	0.46	0.45	5	0.18	0.18	1.0	+	0.558									
Habitat Means			47.09	23.63		42.38	30.95		-			1.57	1.03		4.23	3.30		-										
Fisher's		Power	0.071		Power-50%		0.104	P-value		0.453	Power	0.070		Power-50%		0.096	P-value		0.463	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.074		Power-50%		0.185	P-value		0.443	Power	0.125		Power-50%		0.200	P-value		0.509	Power	---		Power-50%		---	P-value		

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

Table C-3.58. Algal Biomass. Chlorophyta. Prince William Sound. Exposed Rocky. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.406	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.21	0.21	6	0.82	0.60	0.9	-	0.363	6	0.00	0.00	6	0.78	0.59	1.1	-	0.243	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	114.93	114.93	1.4	-	0.391	4	0.00	0.00	4	0.75	0.75	1.4	-	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	14.58	10.62	6	0.06	0.06	0.9	-	0.091	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			4.93	3.61		38.60	38.53	-				0.00	0.00		0.51	0.45	-				0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		0.052	P-value		0.343x	Power	0.029		Power-50%		---	P-value		0.181	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.002		Power-50%		0.051	P-value		0.779	Power	0.012		Power-50%		---	P-value		0.237	Power	---		Power-50%		---	P-value		0.500
19C/19	3	5	0.00	0.00	5	0.94	0.94	1.4	-	0.614	5	0.00	0.00	5	0.14	0.14	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	3.69	2.71	3	1.34	1.09	1.0	+	0.548	5	0.30	0.30	3	1.17	1.17	0.9	-	0.393	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	4	0.00	0.00	5	0.00	0.00	1.2	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			1.23	0.90		0.76	0.68	+				0.10	0.10		0.44	0.44	-				0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.004		Power-50%		0.008	P-value		0.361	Power	---		Power-50%		---	P-value		0.238	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.021		Power-50%		0.048	P-value		0.191	Power	---		Power-50%		---	P-value		0.261	Power	---		Power-50%		---	P-value		0.500

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00	o				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.78	0.59	1.1	-	0.243	6	0.00	0.00	6	0.78	0.59	1.1	-	0.243
1642C/833	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.75	0.75	1.4	-	0.391	4	0.00	0.00	4	0.75	0.75	1.4	-	0.391
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00	o				0.00	0.00		0.51	0.45	-				0.00	0.00		0.51	0.45	-		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.029		Power-50%		---	P-value		0.181	Power	0.035		Power-50%		0.035	P-value		0.181
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.014		Power-50%		---	P-value		0.237	Power	0.013		Power-50%		---	P-value		0.237
19C/19	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.14	0.14	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	0.00	0.00	3	0.10	0.10	1.0	-	0.423	5	0.30	0.30	3	1.07	1.07	0.9	-	0.415	5	0.30	0.30	3	1.07	1.07	0.9	-	0.415
4537C/979	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.03	0.03	-				0.10	0.10		0.40	0.40	-				0.10	0.10		0.36	0.36	-		
Fisher's		Power	---		Power-50%		---	P-value		0.437	Power	---		Power-50%		---	P-value		0.247	Power	---		Power-50%		---	P-value		0.433
Stouffer's		Power	---		Power-50%		---	P-value		0.350	Power	---		Power-50%		---	P-value		0.267	Power	---		Power-50%		---	P-value		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 habitat means is different than direction of overall tests.
z Only one site pair.

Table C-3.58. Algal Biomass. Chlorophyta. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.655		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500		
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.21	0.21	6	0.03	0.03	1.2	+	0.830	6	0.21	0.21	6	0.00	0.00	1.4	+	0.655
1642C/833	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	114.18	114.18	1.4	-	0.391	4	0.00	0.00	4	0.00	0.00	1.4	-	0.391
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	14.58	10.62	6	0.06	0.06	0.9	+	0.091	5	2.74	1.69	6	0.00	0.00	0.8	+	0.181
Habitat Means			0.00	0.00		0.00	0.00		o			4.93	3.61		38.09	38.09		+			0.98	0.64		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value	0.655			Power	0.037		Power-50%	0.036	P-value	0.212	y		Power	0.108		Power-50%	0.108	P-value	0.280		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	0.021		Power-50%	0.039	P-value	0.144			Power	0.050		Power-50%	0.105	P-value	0.205		
19C/19	3	5	0.00	0.00	5	0.14	0.14	1.4	-	0.374	5	0.00	0.00	5	0.80	0.80	1.4	-	0.619	5	0.00	0.00	5	0.80	0.80	1.4	-	0.619
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	2.88	2.87	3	0.17	0.17	1.7	+	0.638	5	1.44	1.43	3	0.00	0.00	1.8	+	0.372
4537C/979	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	1.2	+	0.391	4	0.00	0.00	5	0.00	0.00	1.2	+	0.391
Habitat Means			0.00	0.00		0.05	0.05		-			0.96	0.96		0.33	0.33		+			0.48	0.48		0.27	0.27		-	
Fisher's		Power	---		Power-50%	---	P-value	0.409			Power	0.004		Power-50%	0.007	P-value	0.391			Power	0.004		Power-50%	0.004	P-value	0.288		
Stouffer's		Power	---		Power-50%	---	P-value	0.408			Power	0.032		Power-50%	0.064	P-value	0.208			Power	0.047		Power-50%	0.084	P-value	0.155		

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

Site Pair	MVD	Total *Chaetomorpha/Rhizoclonium* (A) N	C	SE	N	O	SE	CV	D	P	*Chaetomorpha/Rhizoclonium* spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	*Chaetomorpha melagonium* (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.655		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500		
19C/19	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	9.74	9.74	6	0.00	0.00	2.3	+	0.374	5	9.74	9.74	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			3.25	3.25		0.00	0.00		+			3.25	3.25		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	0.227			Power	---		Power-50%	---	P-value	0.227			Power	---		Power-50%	---	P-value	0.655		
Stouffer's		Power	---		Power-50%	---	P-value	0.163			Power	---		Power-50%	---	P-value	0.163			Power	---		Power-50%	---	P-value	0.500		
19C/19	3	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	0.01	0.00	3	0.17	0.17	1.0	-	0.757	5	0.01	0.00	3	0.17	0.17	1.0	-	0.757	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.06	0.06		-			0.00	0.00		0.06	0.06		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.095		Power-50%	0.003	P-value	0.351			Power	0.099		Power-50%	0.007	P-value	0.351			Power	---		Power-50%	---	P-value	0.655		
Stouffer's		Power	0.112		Power-50%	0.003	P-value	0.352			Power	0.112		Power-50%	0.007	P-value	0.352			Power	---		Power-50%	---	P-value	0.500		

(b) Chaetomorpha melagonium not included.

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

Table C-3.58. Algal Biomass. Chlorophyta. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Site Pair	MVD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.406	Power	---		Power-50%		---	P-value		0.406
19C/19	2	6	0.00	0.00	6	0.03	0.03	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	114.17	114.17	1.4	-	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	2.10	2.10	6	0.06	0.06	1.2	+	0.722	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.70	0.70		38.09	38.09		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.271	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.363	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	1.44	1.43	3	0.00	0.00	1.8	+	0.373	5	0.51	0.51	3	0.00	0.00	1.8	+	0.372	5	0.51	0.51	3	0.00	0.00	1.8	+	0.372
4537C/979	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.48	0.48		0.00	0.00		+			0.17	0.17		0.00	0.00		+			0.17	0.17		0.00	0.00		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.524	Power	0.000		Power-50%		0.000	P-value		0.408	Power	0.000		Power-50%		0.000	P-value		0.408
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.423	Power	0.000		Power-50%		0.000	P-value		0.334	Power	0.000		Power-50%		0.000	P-value		0.334

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

Site Pair	MVD	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	E	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.406	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	0.00	0.00	3	0.00	0.00	1.8	+	0.374	5	0.51	0.51	3	0.00	0.00	1.8	+	0.374	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.17	0.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.335	Power	---		Power-50%		---	P-value		0.335	Power	---		Power-50%		---	P-value		0.500

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included

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

Table C-3.59. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Alaria sp. (A)							
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	6	18.47	18.47	6	238.49	132.61	0.7	-	0.229	6	18.47	18.47	6	236.53	131.61	0.7	-	0.229	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	1102.22	1102.22	4	820.70	391.80	1.0	+	0.847	6	1102.22	1102.22	4	820.70	391.80	1.0	+	0.847	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	250.25	180.01	6	0.00	0.00	1.0	+	0.223	6	249.98	180.07	6	0.00	0.00	1.0	+	0.224	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			456.98	433.56		353.06	174.80		+			456.89	433.59		352.41	174.47		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.019		Power-50%		0.053	P-value		0.385	Power	0.012		Power-50%		0.047	P-value		0.386	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.025		Power-50%		0.152	P-value		0.212	Power	0.019		Power-50%		0.150	P-value		0.212	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	8.57	4.62	6	397.22	196.13	0.7	-	0.538	6	3.22	1.85	6	358.84	182.13	0.7	-	0.333	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	1425.60	573.92	4	452.64	169.51	0.5	+	0.155	4	1425.55	573.88	4	444.75	164.49	0.5	+	0.152	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	351.54	175.60	6	0.88	0.88	0.6	+	0.015	5	344.00	175.95	6	0.88	0.88	0.6	+	0.016	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			595.23	251.38		283.58	122.17		+			590.92	250.56		268.16	115.83		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.017	Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		0.379	P-value		0.005	Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.500
19C/19	3	5	210.51	159.07	5	688.40	420.34	0.7	-	0.319	5	202.92	157.77	5	684.10	417.55	0.7	-	0.313	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	571.46	238.42	3	697.85	569.62	0.6	-	0.817	5	560.20	234.82	3	686.80	561.20	0.6	-	0.814	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	4	537.56	336.38	5	1352.29	719.12	0.6	-	0.379	4	425.93	316.89	5	1263.18	754.07	0.7	-	0.383	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			439.84	244.62		912.85	569.69		-			396.35	236.49		878.03	577.61		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.153		Power-50%		0.112	P-value		0.186	Power	0.098		Power-50%		0.081	P-value		0.184	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.161		Power-50%		0.190	P-value		0.134	Power	0.127		Power-50%		0.150	P-value		0.134	Power	---		Power-50%		---	P-value		0.500

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

		Fucus gardneri (P)								Laminaria sp. (P)								Petalonia fascia (AR)							
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
19C/19	1	6	18.47	18.47	6	236.53	131.61	0.7	-	0.229	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	1102.22	1102.22	4	820.70	391.80	1.0	+	0.847	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	249.98	180.07	6	0.00	0.00	1.0	+	0.224	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			456.89	433.59		352.41	174.47		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.012		Power-50%		0.052	P-value		0.386	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.022		Power-50%		0.152	P-value		0.212	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	3.22	1.85	6	358.83	182.13	0.7	-	0.333	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
1642C/833	2	4	1425.55	573.88	4	444.75	164.49	0.5	+	0.152	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	344.00	175.95	6	0.88	0.88	0.6	+	0.016	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			590.92	250.56		268.16	115.83		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		0.162	P-value		0.007	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.406
19C/19	3	5	202.92	157.77	5	684.10	417.55	0.7	-	0.313	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	560.20	234.82	3	686.80	561.20	0.6	-	0.814	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	4	425.48	317.09	5	1263.18	754.07	0.7	-	0.383	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.45	0.45	5	0.00	0.00	1.2	+	0.391
Habitat Means			396.20	236.56		878.03	577.61		-			0.00	0.00		0.00	0.00		o			0.15	0.15		0.00	0.00		+	
Fisher's		Power	0.088		Power-50%		0.089	P-value		0.184	Power	---		Power-50%		---	P-value		0.655	Power			Power 50%			P value		0.419
Stouffer's		Power	0.124		Power-50%		0.161	P-value		0.134	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.236

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

Table C-3.59. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Analipus japonicus (P) N	C	SE	N	O	SE	CV	D	P	Chordaria flagelliformis (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	1.41	0.90	0.9	-	0.177	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.47	0.30		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.017		Power-50%		---	P-value		0.267	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		---	P-value		0.362	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	0.05	0.05	1.4	-	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.02	0.02		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	5	0.28	0.26	5	0.36	0.36	1.0	-	0.861	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	1.60	1.37	3	0.00	0.00	1.6	+	0.305	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	4	13.78	13.58	5	0.80	0.80	1.2	+	0.402	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	13.65	13.45	5	0.80	0.80	1.2	+	0.402
Habitat Means			5.22	5.07		0.39	0.39		+			0.00	0.00		0.00	0.00		o			4.55	4.48		0.27	0.27		+	
Fisher's		Power	0.086		Power-50%		0.055	P-value		0.231	Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.000	P-value		0.425
Stouffer's		Power	0.266		Power-50%		0.174	P-value		0.125	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.001	P-value		0.241

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

Site Pair	MVD	Cystoseira geminata (P) N	C	SE	N	O	SE	CV	D	P	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.36	0.36	1.4	-	0.374	5	0.00	0.00	5	0.36	0.36	1.4	-	0.374
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	1.56	1.37	3	0.00	0.00	1.6	+	0.318	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.13	0.13	5	0.00	0.00	1.2	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.56	0.50		0.12	0.12		+			0.00	0.00		0.12	0.12		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.004		Power-50%		0.005	P-value		0.289	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.027		Power-50%		0.051	P-value		0.167	Power	---		Power-50%		---	P-value		0.408

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

Table C-3.59. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Site Pair	MVD	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Eudesme virescens (AE) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.41	0.90	0.9	-	0.177
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.47	0.30		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.016		Power-50%		0.016	P-value		0.267
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.362
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.05	0.05	1.4	-	0.391
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.02	0.02		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.341
19C/19	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.28	0.26	5	0.00	0.00	1.3	+	0.335
1642C/833	3	5	1.56	1.37	3	0.00	0.00	1.6	+	0.318	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.04	0.04	3	0.00	0.00	1.7	+	0.348
4537C/979	3	4	0.13	0.13	5	0.00	0.00	1.2	+	0.391	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	1.6	-	0.374
Habitat Means			0.56	0.50		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.11	0.10		0.00	0.00		+	
Fisher's		Power	0.006		Power-50%		0.000	P-value		0.215	Power	---		Power-50%		---	P-value		0.655	Power	0.006		Power-50%		0.006	P-value		0.278
Stouffer's		Power	0.074		Power-50%		0.048	P-value		0.116	Power	---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		0.006	P-value		0.518

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.54	0.54	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.01	0.01	1.4	-	0.363
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.18	0.18		-			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.519	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.700	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.406
19C/19	2	6	0.00	0.00	6	0.45	0.37	1.2	-	0.283	6	0.00	0.00	6	0.42	0.34	1.2	-	0.279	6	0.00	0.00	6	0.03	0.03	1.3	-	0.337
1642C/833	2	4	0.00	0.00	4	7.84	7.83	1.4	-	0.391	4	0.00	0.00	4	0.48	0.47	1.4	-	0.385	4	0.00	0.00	4	7.35	7.35	1.4	-	0.391
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.76	2.73		-			0.00	0.00		0.30	0.27		-			0.00	0.00		2.46	2.46		-	
Fisher's		Power	0.011		Power-50%		---	P-value		0.199	Power	0.023		Power-50%		---	P-value		0.196	Power	0.004		Power-50%		0.004	P-value		0.223
Stouffer's		Power	0.007		Power-50%		---	P-value		0.245	Power	0.020		Power-50%		---	P-value		0.242	Power	0.002		Power-50%		---	P-value		0.254
19C/19	3	5	0.03	0.02	5	0.34	0.21	0.8	-	0.971	5	0.02	0.02	5	0.16	0.16	1.2	-	0.546	5	0.00	0.00	5	0.00	0.00	0.7	-	0.545
1642C/833	3	5	1.97	1.32	3	10.85	8.25	0.7	-	0.207	5	0.34	0.25	3	1.03	1.03	0.8	-	0.435	5	0.08	0.08	3	0.73	0.59	0.7	-	0.455
4537C/979	3	4	0.01	0.00	5	0.18	0.18	1.5	-	0.916	4	0.00	0.00	5	0.18	0.18	1.6	-	0.512	4	0.00	0.00	5	0.00	0.00	1.2	+	0.391
Habitat Means			0.67	0.45		3.79	2.88		-			0.12	0.09		0.46	0.46		-			0.03	0.03		0.24	0.20		+	
Fisher's		Power	0.243		Power-50%		0.177	P-value		0.273	Power	0.036		Power-50%		0.077	P-value		0.212	Power	0.008		Power-50%		0.008	P-value		0.382 y
Stouffer's		Power	0.369		Power-50%		0.289	P-value		0.241	Power	0.130		Power-50%		0.165	P-value		0.140	Power	0.016		Power-50%		0.235	P-value		0.302

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

Table C-3.59. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Colpomenia peregrina (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.54	0.54	1.4	~	0.363	6	0.00	0.00	6	0.00	0.00	1.4	~	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.27	0.27	6	0.00	0.00	1.4	+	0.360	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.18	0.18		~			0.09	0.09		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.000		Power-50%		0.000	P-value		0.516	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.406	Power	0.000		Power-50%		0.000	P-value		0.298	Power	---		*Power-50%*		---	*P-value*		*0.500*
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.35	4.72	6	37.93	17.26	0.6	~	0.099	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	0.01	0.00	0.8	~	0.182	4	0.05	0.05	4	0.00	0.00	1.4	~	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	7.54	3.06	6	0.00	0.00	0.5	~	0.069	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		~			4.31	2.61		12.64	5.75		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.271	Power	0.050		Power-50%		0.212	P-value		0.121xy	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		---	P-value		0.261	Power	---		Power-50%		---	P-value		0.067	Power	---		Power-50%		---	P-value		0.500
19C/19	3	5	0.00	0.00	5	0.18	0.18	1.4	~	0.399	5	7.28	5.94	5	3.60	2.51	0.8	+	0.584	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	1.54	1.41	3	9.09	8.83	0.9	~	0.304	5	7.68	5.52	3	0.10	0.10	1.3	+	0.890	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	4	0.00	0.00	5	0.00	0.00	1.2	+	0.391	4	97.40	44.05	5	53.68	50.86	0.6	-	0.549	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.52	0.47		3.09	3.00		~			37.46	18.50		19.13	17.82		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.026		Power-50%		0.015	P-value		0.283	Power	0.194		Power-50%		0.346	P-value		0.353	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.016		Power-50%		0.086	P-value		0.502	Power	0.362		Power-50%		0.456	P-value		0.239	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Leathesia difformis (A) N	C	S	N	O	E	CV	D		Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.27	0.27	6	0.00	0.00	1.4	+	0.360	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.09	0.09		0.00	0.00		+			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.516	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.298	Power	---		Power-50%		---	*P-value*		*0.406*	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	1.43	0.94	6	23.22	13.62	0.8	-	0.226	6	3.92	3.92	6	14.71	9.39	0.8	-	0.314	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
1642C/833	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.05	0.05	4	0.00	0.00	1.4	+	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	3.33	2.09	6	0.00	0.00	0.8	+	0.187	5	4.21	2.56	6	0.00	0.00	0.8	+	0.175	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.59	1.01		7.74	4.54		+			2.72	2.17		4.90	3.13		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.001		Power-50%		0.249	P-value		0.384 y	Power	0.035		Power-50%		0.160	P-value		0.205 y	Power	---		Power-50%		---	*P-value*		*0.403*
Stouffer's		Power	0.001		Power-50%		0.207	P-value		0.215	Power	---		Power-50%		---	P-value		0.100	Power	---		Power-50%		---	P-value		0.406
19C/19	3	5	4.22	3.07	5	3.14	2.48	0.8	+	0.791	5	3.06	2.94	5	0.46	0.46	1.2	+	0.541	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	7.68	5.51	3	0.10	0.10	1.3	+	0.641	5	0.00	0.00	3	0.00	0.00	0.9	-	0.725	5	0.00	0.00	3	0.10	0.10	1.0	-	0.423
4537C/979	3	4	89.35	41.86	5	53.68	50.86	0.7	+	0.618	4	8.05	4.97	5	0.00	0.00	0.8	-	0.204	4	0.45	0.45	5	34.44	30.64	1.4	-	0.288
Habitat Means			33.75	16.82		18.97	17.81		+			3.71	2.64		0.15	0.15		+			0.15	0.15		11.51	10.25		-	
Fisher's		Power	0.168		Power-50%		0.415	P-value		0.372	Power	0.045		Power-50%		0.111	P-value		0.232	Power	0.004		Power-50%		0.004	P-value		0.212
Stouffer's		Power	0.348		Power-50%		0.525	P-value		0.239	Power	0.128		Power-50%		0.334	P-value		0.146	Power	0.033		Power-50%		---	P-value		0.101

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

Table C-3.59. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

		Ralfsia fungiformis (P)																							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000																		
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
19C/19	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363																		
1642C/833	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000																		
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.406	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
19C/19	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000																		
1642C/833	3	5	0.00	0.00	3	0.10	0.10	1.0	-	0.423																		
4537C/979	3	4	0.45	0.45	5	34.44	30.64	1.4	-	0.288																		
Habitat Means			0.15	0.15		11.51	10.25		-																			
Fisher's		Power	0.004		Power-50%		---	P-value		0.212	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
											Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.60. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Constantinea simplex (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	12.45	12.45	6	15.43	10.35	0.8	-	0.858	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.68	0.55	0.9	-	0.305	6	0.00	0.00	4	0.10	0.10	2.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	19.88	18.09	6	0.00	0.00	1.3	+	0.322	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			10.78	10.18		5.37	3.63		-			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.013	P-value		0.446 y	Power	---		Power-50%		---	P-value		0.234	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.013	P-value		0.615	Power	---		Power-50%		---	P-value		0.258	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	64.37	56.49	6	468.12	266.88	0.7	-	0.636	6	0.83	0.41	6	23.55	22.42	1.3	-	0.818	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	126.11	121.81	1.4	-	0.377	4	0.00	0.00	4	9.40	7.29	1.1	-	0.287	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	735.71	201.79	6	15.17	15.17	0.3	+	0.002	5	1.26	1.26	6	0.74	0.74	1.0	+	0.721	5	1.26	1.26	6	0.00	0.00	1.3	+	0.374
Habitat Means			266.69	86.09		203.14	134.62		-			0.70	0.56		11.23	10.15		-			0.42	0.42		0.00	0.00		+	
Fisher's		Power	0.029		Power-50%		0.209	P-value		0.466xy	Power	0.076		Power-50%		0.141	P-value		0.363	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	0.012		Power-50%		0.192	P-value		0.980	Power	0.156		Power-50%		0.059	P-value		0.393	Power	---		Power-50%		---	P-value		0.228
19C/19	3	5	156.09	91.47	5	33.86	24.70	0.7	+	0.233	5	1.48	1.06	5	0.20	0.20	0.9	-	0.882	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	207.14	137.15	3	201.16	125.76	0.7	+	0.978	5	1.00	1.00	3	113.45	88.91	0.8	-	0.210	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	4	242.24	85.90	5	239.65	197.13	0.7	+	0.992	4	4.48	3.69	5	11.44	3.99	0.5	-	0.252	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			201.83	104.84		158.23	115.87		-			2.32	1.92		41.70	31.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.047		Power-50%		0.058	P-value		0.309	Power	0.135		Power-50%		0.092	P-value		0.132	Power	---		Power-50%		---	P-value		0.655
[illegible]		[illegible]	0.075		Power-50%		0.139	P-value		0.370	Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		0.500

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

		Gigartinaceae Group (P) (a)								Total Palmaria (A)								Palmaria spp. (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.10	0.10	2.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.234	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.258	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.55	0.39	6	23.27	22.14	1.3	-	0.481	6	0.28	0.28	6	0.10	0.10	1.1	+	0.555	6	0.00	0.00	6	0.10	0.10	1.4	-	0.363
1642C/833	2	4	0.00	0.00	4	7.95	6.31	1.1	-	0.297	4	0.00	0.00	4	1.45	0.99	1.0	-	0.240	4	0.00	0.00	4	1.05	1.05	1.4	-	0.391
4537C/979	2	5	0.00	0.00	6	0.56	0.56	1.6	-	0.706	5	0.00	0.00	6	0.18	0.18	1.6	-	0.363	5	0.00	0.00	6	0.18	0.18	1.6	-	0.363
Habitat Means			0.18	0.13		10.59	9.67		-			0.09	0.09		0.58	0.42		-			0.00	0.00		0.44	0.44		-	
Fisher's		Power	0.154		Power-50%		0.045	P-value		0.188	Power	0.100		Power-50%		---	P-value		0.217	Power	---		Power-50%		---	P-value		0.121
Stouffer's		Power	0.335		Power-50%		0.016	P-value		0.159	Power	0.208		Power-50%		---	P-value		0.121	Power	---		Power-50%		---	P-value		0.079
19C/19	3	5	0.00	0.00	5	0.20	0.20	1.4	-	0.374	5	1.20	1.06	5	0.00	0.00	1.2	-	0.319	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	0.00	0.00	3	95.33	84.47	0.9	-	0.063	5	1.00	1.00	3	18.10	9.14	0.5	-	0.291	5	1.00	1.00	3	1.73	1.73	0.9	-	0.704
4537C/979	3	4	4.48	3.69	5	10.65	3.62	0.5	-	0.276	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			1.49	1.23		35.39	29.43		-			0.73	0.69		6.03	3.05		-			0.33	0.33		0.58	0.58		-	
Fisher's		Power	---		Power-50%		---	P-value		0.027	Power	0.047		Power-50%		0.008	P-value		0.377	Power	---		Power-50%		---	P-value		0.562
Stouffer's		Power	---		Power-50%		0.091	P-value		0.021	Power	0.023		Power-50%		0.004	P-value		0.357	Power	---		Power-50%		---	P-value		0.428

(a) Chordrus, Iridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.60. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Site Pair	MVD	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV	D	P	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.28	0.28	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.40	0.40	1.4	-	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.09	0.09		0.13	0.13		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.514 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.569	Power	---		Power-50%		---	P-value		0.500
19C/19	3	5	1.00	0.86	5	0.00	0.00	1.2	+	0.309	5	0.20	0.20	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	9.80	9.80	1.0	-	0.423	5	0.00	0.00	3	6.57	6.57	1.0	-	0.423
4537C/979	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.33	0.29		0.00	0.00		+			0.07	0.07		3.27	3.27		-			0.00	0.00		2.19	2.19		-	
Fisher's		Power	0.000		Power-50%		0.001	P-value		0.368	Power	---		Power-50%		---	P-value		0.517 y	Power	---		Power-50%		---	P-value		0.437
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.395	Power	---		Power-50%		---	P-value		0.561	Power	---		Power-50%		---	P-value		0.350

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

Site Pair	MVD	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	0.18	0.18	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.06	0.06		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.406	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	5	0.28	0.28	5	0.00	0.00	1.4	+	0.393	5	0.00	0.00	5	0.00	0.00	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	0.00	0.00	3	0.02	0.02	0.8	-	0.337	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	4	0.00	0.00	5	0.78	0.73	1.5	-	0.401	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.09		0.27	0.25		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.017		Power-50%		0.001	P-value		0.302	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.054		Power-50%		0.001	P-value		0.173	Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.60. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	12.45	12.45	6	15.42	10.36	0.8	-	0.858	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.58	0.57	1.1	-	0.389	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	19.88	18.09	6	0.00	0.00	1.3	+	0.322	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.75	0.75	6	0.00	0.00	1.4	+	0.363
Habitat Means			10.78	10.18		5.33	3.64		-			0.00	0.00		0.00	0.00		o			0.25	0.25		0.00	0.00		+	
Fisher's		Power	0.001		Power-50%		0.005	P-value		0.503 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.000		Power-50%		0.007	P-value		0.645	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.223
19C/19	2	6	62.04	56.37	6	438.62	241.59	0.7	-	0.590	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	46.10	45.99	1.4	-	0.390	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	1.96	1.96	1.4	-	0.391
4537C/979	2	5	734.43	201.61	6	2.83	2.83	0.3	+	0.001	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			265.49	85.99		162.52	96.80		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.65	0.65		-	
Fisher's		Power	0.035		Power-50%		0.157	P-value		0.456xy	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	0.002		Power-50%		0.143	P-value		0.987	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.341
19C/19	3	5	153.72	90.94	5	33.64	24.69	0.7	+	0.238	5	1.60	1.60	5	0.00	0.00	1.4	+	0.374	5	0.14	0.14	5	0.00	0.00	1.4	+	0.374
1642C/833	3	5	204.42	136.30	3	55.13	35.33	1.0	+	0.447	5	1.20	1.20	3	0.00	0.00	1.8	+	0.374	5	0.72	0.72	3	10.37	7.53	0.7	-	0.204
4537C/979	3	4	237.01	88.42	5	197.19	176.42	0.7	+	0.858	4	0.00	0.00	5	0.12	0.12	1.6	-	0.374	4	0.90	0.90	5	0.00	0.00	1.2	+	0.523
Habitat Means			198.39	105.22		95.32	78.81		+			0.93	0.93		0.04	0.04		.			0.59	0.59		3.46	2.51		-	
Fisher's		Power	0.054		Power-50%		0.066	P-value		0.177	Power	---		Power-50%		---	P-value		0.310	Power	0.012		Power-50%		0.012	P-value		0.396 y
[illegible]		[illegible]	0.101		[illegible]		0.131	P-value		0.206	Power	---		Power-50%		---	P-value		0.535	Power	0.014		Power-50%		---	P-value		0.438

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

Site Pair	MVD	Dumontia contorta (AE) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.58	0.58	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.19	0.19		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.341
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	0.08	0.05	0.9	-	0.195	4	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.03	0.02		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.008		Power-50%		---	P-value		0.283	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.006		Power-50%		---	P-value		0.267	Power	---		Power-50%		---	P-value		0.500
19C/19	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	1.24	1.24	1.4	-	0.374	5	0.00	0.00	5	0.00	0.00	1.4	+	0.374
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	1.0	-	0.423
4537C/979	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	1.2	-	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.41	0.41		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.312
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.408	Power	---		Power-50%		---	P-value		0.286

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

Table C-3.60. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Site Pair	MVD	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	12.45	12.45	6	15.42	10.36	0.8	-	0.858	6	12.45	12.45	6	15.42	10.36	0.8	-	0.858	6	0.00	0.00	6	0.00	0.00		o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00		o	1.000	6	0.00	0.00	4	0.00	0.00		o	1.000	6	0.00	0.00	4	0.00	0.00		o	1.000
4537C/979	1	6	19.13	18.22	6	0.00	0.00	1.3	+	0.342	6	18.82	18.28	6	0.00	0.00	1.4	+	0.351	6	0.32	0.32	6	0.00	0.00	1.4	+	0.363
Habitat Means			10.53	10.22		5.14	3.45		+			10.42	10.24		5.14	3.45		+			0.11	0.11		0.00	0.00		+	
Fisher's		Power	0.015		Power-50%		0.007	P-value		0.419	Power	0.003		Power-50%		0.002	P-value		0.424	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.015		Power-50%		0.008	P-value		0.227	Power	0.003		Power-50%		0.002	P-value		0.231	Power	---		Power-50%		---	P-value		0.223
19C/19	2	6	61.80	56.42	6	436.17	239.45	0.7	-	0.386	6	61.80	56.42	6	144.44	118.02	0.9	-	0.542	6	0.00	0.00	6	291.73	226.27	1.1	-	0.254
1642C/833	2	4	0.00	0.00	4	25.01	25.01	1.4	-	0.391	4	0.00	0.00	4	25.01	25.01	1.4	-	0.391	4	0.00	0.00	4	0.00	0.00	1.4	-	0.391
4537C/979	2	5	734.11	201.76	6	0.00	0.00	0.3	+	0.022	5	671.29	202.05	6	0.00	0.00	0.4	+	0.029	5	62.82	62.82	6	0.00	0.00	1.3	+	0.374
Habitat Means			265.30	86.06		153.73	88.15		-			244.36	86.16		56.48	47.68		-			20.94	20.94		97.24	75.43		-	
Fisher's		Power	0.003		Power-50%		0.104	P-value		0.362xy	Power	0.006		Power-50%		0.131	P-value		0.434xy	Power	0.004		Power-50%		0.004	P-value		0.253
Stouffer's		Power	0.000		Power-50%		0.099	P-value		0.900	Power	0.000		Power-50%		0.118	P-value		0.896	Power	0.001		Power-50%		---	P-value		0.514
19C/19	3	5	143.96	90.83	5	12.64	7.75	0.8	+	0.368	5	80.08	53.13	5	12.46	7.63	0.8	+	0.387	5	63.88	63.88	5	0.18	0.18	1.4	+	0.746
1642C/833	3	5	202.50	136.08	3	30.66	27.18	1.1	+	0.383	5	193.94	135.13	3	2.90	2.15	1.3	+	0.887	5	8.56	6.71	3	27.76	27.76	0.8	-	0.420
4537C/979	3	4	233.88	90.04	5	184.39	179.21	0.7	+	0.827	4	0.00	0.00	5	31.89	31.56	1.6	-	0.370	4	233.88	90.04	5	152.50	147.66	0.7	+	0.674
Habitat Means			193.45	105.65		75.89	71.38		+			91.34	62.76		15.75	13.78		+			102.11	53.55		60.15	58.53		-	
Fisher's		Power	0.102		Power-50%		0.083	P-value		0.206	Power	0.002		Power-50%		0.002	P-value		0.503	Power	0.155		Power-50%		0.155	P-value		0.594
Stouffer's		Power	0.187		Power-50%		0.179	P-value		0.202	Power	0.000		Power-50%		0.003	P-value		0.677	Power	0.229		Power-50%		0.356	P-value		0.480

(b) Neorhodomela larix not included.

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

Site Pair	MVD	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00		o	1.000	6	0.00	0.00	4	0.00	0.00		o	1.000	6	0.00	0.00	4	0.00	0.00		o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.23	0.23	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	2.13	2.13	1.4	-	0.584	6	0.00	0.00	6	0.32	0.32	1.4	-	0.363
1642C/833	2	4	0.00	0.00	4	0.00	0.00		o	1.000	4	0.00	0.00	4	0.70	0.70	1.4	-	0.391	4	0.00	0.00	4	18.36	18.36	1.4	-	0.391
4537C/979	2	5	0.00	0.00	6	0.00	0.00		o	1.000	5	0.32	0.27	6	1.28	1.28	1.3	-	0.595	5	0.00	0.00	6	1.55	1.55	1.6	-	0.363
Habitat Means			0.08	0.08		0.00	0.00		+			0.11	0.09		1.37	1.37		-			0.00	0.00		6.74	6.74		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.022		Power-50%		0.015	P-value		0.227	Power	---		Power-50%		---	P-value		0.121
Stouffer's		Power	---		Power-50%		---	P-value		0.406	Power	0.097		Power-50%		0.013	P-value		0.159	Power	---		Power-50%		---	P-value		0.079
19C/19	3	5	2.48	2.48	5	0.00	0.00	1.4	+	0.374	5	1.20	1.20	5	19.76	19.76	1.3	-	0.878	5	4.34	2.85	5	0.00	0.00	0.9	+	0.202
1642C/833	3	5	0.00	0.00	3	0.00	0.00		o	1.000	5	0.00	0.00	3	7.53	7.53	1.0	-	0.154	5	0.00	0.00	3	6.57	3.58	0.5	-	0.208
4537C/979	3	4	0.00	0.00	5	2.16	2.16	1.6	-	0.373	4	2.23	2.22	5	10.52	10.45	1.3	-	0.512	4	0.00	0.00	5	0.00	0.00		o	1.000
Habitat Means			0.83	0.83		0.72	0.72		-			1.14	1.14		12.61	12.58		-			1.45	0.95		2.29	1.19		+	
Fisher's		Power	0.000		Power-50%		---	P-value		0.524 y	Power	0.034		Power-50%		0.017	P-value		0.148	Power	0.008		Power-50%		0.008	P-value		0.403 y
Stouffer's		Power	0.000		Power-50%		---	P-value		0.304	Power	0.153		Power-50%		0.072	P-value		0.102	Power	0.000		Power-50%		0.000	P-value		0.607

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

Table C-3.60. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Reds								Antithamnion/Antithamnionella (A) (b)								Audouinella purpurea (AE)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.01	0.01	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.01	0.01	1.4	-	0.363
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.406	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.406
19C/19	2	6	1.50	1.50	6	3.17	3.17	1.1	-	0.644	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	2	4	0.00	0.00	4	17.20	17.20	1.4	-	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	1.75	1.75	1.4	-	0.391
4537C/979	2	5	0.02	0.02	6	8.73	8.73	1.6	-	0.776	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.51	0.51		9.70	9.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.58	0.58		-	
Fisher's		Power	0.005		Power-50%		0.004	P-value		0.284	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	0.043		Power-50%		0.001	P-value		0.221	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.341
19C/19	3	5	0.20	0.20	5	0.02	0.02	1.3	+	0.327	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	5	1.72	1.39	3	17.88	17.49	0.9	-	0.602	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
4537C/979	3	4	0.03	0.02	5	0.00	0.00	1.0	+	0.297	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.65	0.54		5.97	5.84		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.017		Power-50%		0.082	P-value		0.227 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.047		Power-50%		0.174	P-value		0.189	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Callithamnion pikeanum (A)								Ceramium sp. (A)								Polysiphonia/Pterosiphonia (A) (a)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.01	0.01	1.4	-	0.363
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.406
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	1.50	1.50	6	3.17	3.17	1.1	-	0.645
1642C/833	2	4	0.00	0.00	4	0.55	0.55	1.4	-	0.391	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	14.90	14.90	1.4	-	0.391
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.02	0.02	6	8.73	8.73	1.6	-	0.776
Habitat Means			0.00	0.00		0.18	0.18		-			0.00	0.00		0.00	0.00		-			0.51	0.51		8.93	8.93		-	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.403	Power	0.003		Power-50%		0.003	P-value		0.284
Stouffer's		Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.406	Power	0.028		Power-50%		0.000	P-value		0.221
19C/19	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.00	0.00	5	0.02	0.02	1.4	-	0.374	5	0.20	0.20	5	0.00	0.00	1.4	+	0.363
1642C/833	3	5	0.00	0.00	3	0.27	0.15	0.6	-	0.215	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	1.72	1.39	3	17.61	17.36	0.9	-	0.625
4537C/979	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.03	0.02	5	0.00	0.00	1.1	+	0.340	4	0.00	0.00	5	0.00	0.00	1.2	-	0.391
Habitat Means			0.00	0.00		0.09	0.05		-			0.01	0.01		0.01	0.01		+			0.64	0.53		5.87	5.79		-	
Fisher's		Power	0.068		Power-50%		---	P-value		0.300	Power	0.000		Power-50%		0.004	P-value		0.500	Power	0.011		Power-50%		0.011	P-value		0.283 y
Stouffer's		Power	0.058		Power-50%		---	P-value		0.276	Power	0.000		Power-50%		0.004	P-value		0.285	Power	0.038		Power-50%		0.124	P-value		0.235

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

Table C-3.60. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Site Pair	MVD	Scagelia/Hollenbergia (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.406	Power	---		Power-50%		---	P-value		0.406
19C/19	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	2.78	2.78	1.4	-	0.363	6	0.00	0.00	6	2.78	2.78	1.4	-	0.363
1642C/833	2	4	0.00	0.00	4	0.00	0.00	-	o	1.000	4	0.00	0.00	4	52.43	50.51	1.4	-	0.376	4	0.00	0.00	4	52.43	50.51	1.4	-	0.376
4537C/979	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	2.87	2.87	1.6	-	0.363	5	0.00	0.00	6	2.87	2.87	1.6	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		19.36	18.72		-			0.00	0.00		19.36	18.72		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.037		Power-50%		---	P-value		0.118	Power	0.031		Power-50%		0.031	P-value		0.118
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.077	Power	---		Power-50%		---	P-value		0.077
19C/19	3	5	0.00	0.00	5	0.00	0.00	-	o	1.000	5	0.50	0.50	5	0.00	0.00	1.4	-	0.374	5	0.50	0.50	5	0.00	0.00	1.4	+	0.374
1642C/833	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	7.37	7.37	1.0	-	0.423	5	0.00	0.00	3	7.37	7.37	1.0	-	0.423
4537C/979	3	4	0.00	0.00	5	0.00	0.00	-	o	1.000	4	0.40	0.40	5	0.38	0.38	1.0	+	0.969	4	0.40	0.40	5	0.38	0.38	1.0	+	0.969
Habitat Means			0.00	0.00		0.00	0.00		o			0.30	0.30		2.58	2.58		+			0.30	0.30		2.58	2.58		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.509 y	Power	---		Power-50%		---	P-value		0.509 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.548	Power	---		Power-50%		---	P-value		0.548

(b) Genera not separated.

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

Site Pair	MVD	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Calcified Reds N	C	SE	N	O	SE	CV	D	P	Articulate Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.406	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	6	2.78	2.78	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
1642C/833	2	4	0.00	0.00	4	52.43	50.51	1.4	-	0.376	4	0.00	0.00	4	0.98	0.98	1.4	-	0.391	4	0.00	0.00	4	0.98	0.98	1.4	-	0.391
4537C/979	2	5	0.00	0.00	6	2.87	2.87	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		19.36	18.72		-			0.00	0.00		0.33	0.33		-			0.00	0.00		0.33	0.33		-	
Fisher's		Power	0.038		Power-50%		---	P-value		0.118	Power	---		Power-50%		---	P-value		0.234	Power	---		Power-50%		---	P-value		0.234
Stouffer's		Power	---		Power-50%		---	P-value		0.077	Power	---		Power-50%		---	P-value		0.258	Power	---		Power-50%		---	P-value		0.258
19C/19	3	5	0.50	0.50	5	0.00	0.00	1.4	+	0.374	5	0.18	0.18	5	0.00	0.00	1.4	+	0.374	5	0.18	0.18	5	0.00	0.00	1.4	+	0.374
1642C/833	3	5	0.00	0.00	3	7.37	7.37	1.0	-	0.423	5	0.00	0.00	3	7.33	7.33	1.0	-	0.423	5	0.00	0.00	3	7.33	7.33	1.0	-	0.423
4537C/979	3	4	0.40	0.40	5	0.38	0.38	1.0	+	0.969	4	0.33	0.19	5	30.64	20.34	1.0	-	0.471	4	0.33	0.19	5	30.64	20.34	1.0	-	0.471
Habitat Means			0.30	0.30		2.58	2.58		.			0.17	0.12		12.66	9.22		-			0.17	0.12		12.66	9.22		-	
Fisher's		Power	---		Power-50%		---	P-value		0.509 y	Power	0.050		Power-50%		0.159	P-value		0.378	Power	0.057		Power-50%		0.057	P-value		0.378
Stouffer's		Power	---		Power-50%		---	P-value		0.548	Power	0.114		Power-50%		0.150	P-value		0.225	Power	0.115		Power-50%		0.145	P-value		0.225

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

Table C-3.61. Algal Biomass. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)							Total Algae								Perennials (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	2.17	0.79	5	4.60	1.72	0.4	-	0.206	6	293.59	248.90	5	1251.48	709.08	0.6	-	0.202	6	293.25	248.83	5	1107.40	657.86	0.7	-	0.245
1642C/833	1	6	2.00	0.73	4	8.75	3.09	0.3	-	0.032	6	1478.69	1327.33	4	1197.08	850.33	0.9	+	0.879	6	1477.80	1327.47	4	1136.36	830.06	0.9	+	0.853
4537C/979	1	6	4.67	2.42	6	0.67	0.33	0.6	+	0.160	6	1307.01	787.61	6	1.70	1.32	0.9	+	0.176	6	1304.50	786.81	6	1.54	1.34	0.9	+	0.159
Habitat Means			2.94	1.31		4.67	1.72		-			1026.43	787.95		816.75	520.24		+			1025.18	787.71		748.43	496.42		-	
Fisher's		Power	---		Power-50%		---		P-value	0.044	Power	0.014		Power-50%		0.065		P-value	0.347	Power	0.010		Power-50%		0.010		P-value	0.318
Stouffer's		Power	0.171		Power-50%		0.505		P-value	0.429	Power	0.009		Power-50%		0.153		P-value	0.191	Power	0.024		Power-50%		0.086		P-value	0.167
19C/19	2	6	6.83	2.27	5	10.00	3.18	0.3	-	0.428	6	404.35	290.93	5	1628.74	623.18	0.4	-	0.091	6	357.35	253.34	5	1059.18	336.83	0.4	-	0.124
1642C/833	2	6	5.67	1.76	4	12.75	3.04	0.2	-	0.062	6	2152.44	839.50	4	1092.15	118.72	0.4	+	0.841	6	2107.34	834.05	4	755.94	207.20	0.5	-	0.236
4537C/979	2	6	9.50	2.85	6	2.33	1.23	0.4	+	0.044	6	2519.84	589.77	6	40.36	24.54	0.3	+	0.017	6	2305.34	618.47	6	40.15	24.42	0.4	+	0.018
Habitat Means			7.33	2.30		8.36	2.48		-			1692.21	573.40		920.42	255.48		+			1590.01	568.62		618.42	189.48		+	
Fisher's		Power	0.214		Power-50%		0.875		P-value	0.121x	Power	---		Power-50%		---		P-value	0.078x	Power	---		Power-50%		---		P-value	0.031
Stouffer's		Power	0.033		Power-50%		0.889		P-value	0.722	Power	---		Power-50%		---		P-value	0.049	Power	---		Power-50%		---		P-value	0.016
19C/19	3	6	13.00	2.22	5	14.20	2.03	0.2	-	0.705	6	1493.25	914.01	5	2350.06	935.54	0.5	-	0.532	6	1195.82	830.49	5	1736.91	744.05	0.5	-	0.646
1642C/833	3	6	17.17	3.33	4	12.50	3.12	0.2	+	0.363	6	4295.30	1363.19	4	792.77	173.91	0.5	+	0.077	6	3343.50	1425.80	4	280.63	239.59	0.7	+	0.007
4537C/979	3	5	15.00	3.62	6	15.83	4.62	0.3	-	0.894	5	3283.09	715.55	6	3550.69	1271.66	0.3	-	0.867	5	2726.17	827.37	6	2515.68	1252.96	0.4	+	0.897
Habitat Means			15.06	3.06		14.18	3.26		-			3023.88	997.58		2231.27	860.37		-			2421.83	1027.89		1511.07	745.53		+	
Fisher's		Power	0.033		Power-50%		0.746		P-value	0.663 y	Power	0.072		Power-50%		0.141		P-value	0.622xy	Power	---		Power-50%		---		P-value	0.033
Stouffer's		Power	0.030		Power-50%		0.787		P-value	0.589	Power	0.021		Power-50%		0.218		P-value	0.706	Power	---		Power-50%		---		P-value	0.099

(a) 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.

		Annuals (A)							Ephemerals (AE)															
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.34	0.23	5	144.08	143.79	1.3	-	0.305	6	0.00	0.00	5	88.05	87.91	1.3	-	0.154									
1642C/833	1	6	0.89	0.61	4	60.71	25.41	0.5	-	0.013	6	0.27	0.25	4	9.14	8.71	1.0	-	0.244									
4537C/979	1	6	2.51	1.65	6	0.17	0.17	0.9	+	0.300	6	0.34	0.30	6	0.00	0.00	1.2	+	0.308									
Habitat Means			1.25	0.83		68.32	56.45		-			0.20	0.18		32.40	32.21		-										
Fisher's		Power	---		Power-50%		---		P-value	0.028	Power	0.039		Power-50%		0.257		P-value	0.139	Power	---		Power-50%		---		P-value	
Stouffer's		Power	0.206		Power-50%		0.211		P-value	0.277	Power	0.010		Power-50%		0.507		P-value	0.470	Power	---		Power-50%		---		P-value	
19C/19	2	6	47.00	37.78	5	569.56	492.87	1.0	-	0.359	6	3.57	2.94	5	101.19	48.40	0.6	-	0.099									
1642C/833	2	6	45.10	18.93	4	336.21	142.97	0.4	-	0.115	6	18.85	12.27	4	3.70	2.80	1.0	-	0.357									
4537C/979	2	6	214.50	198.79	6	0.21	0.17	1.3	+	0.022	6	23.60	23.60	6	0.05	0.04	1.4	+	0.809									
Habitat Means			102.20	85.17		301.99	212.00		-			15.34	12.94		34.98	17.08		+										
Fisher's		Power	0.244		Power-50%		0.050		P-value	0.164x	Power	0.001		Power-50%		0.030		P-value	0.499xy	Power	---		Power-50%		---		P-value	
Stouffer's		Power	0.048		Power-50%		0.115		P-value	0.821	Power	0.002		Power-50%		0.185		P-value	0.415	Power	---		Power-50%		---		P-value	
19C/19	3	6	297.44	122.02	5	613.16	252.58	0.4	-	0.264	6	94.25	53.21	5	327.97	97.07	0.4	-	0.054									
1642C/833	3	6	951.80	249.19	4	512.14	148.96	0.3	+	0.223	6	554.89	204.56	4	116.89	67.93	0.5	+	0.132									
4537C/979	3	5	556.93	262.06	6	1035.01	640.40	0.7	-	0.538	5	292.43	184.35	6	309.01	96.36	0.5	-	0.935									
Habitat Means			602.05	211.09		720.10	347.31		-			313.86	147.37		251.29	87.12		-										
Fisher's		Power	0.071		Power-50%		0.101		P-value	0.329	Power	0.184		Power-50%		0.100		P-value	0.181 y	Power	---		Power-50%		---		P-value	
Stouffer's		Power	0.089		Power-50%		0.167		P-value	0.412	Power	0.170		Power-50%		0.188		P-value	0.560	Power	---		Power-50%		---		P-value	

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

Table C-3.62. Algal Biomass. Chlorophyta. Prince William Sound. Exposed Rocky. June 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	1.04	0.99	1.2	-	0.100	6	0.00	0.00	5	1.04	0.99	1.2	-	0.353	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.02	0.02	4	3.18	2.27	0.8	-	0.033	6	0.02	0.02	4	1.63	1.23	0.8	-	0.189	6	0.00	0.00	4	0.13	0.13	1.1	-	0.391
4537C/979	1	6	0.31	0.30	6	0.00	0.00	1.4	+	0.357	6	0.30	0.30	6	0.00	0.00	1.4	+	0.360	6	0.15	0.15	6	0.00	0.00	1.4	+	0.357
Habitat Means			0.11	0.11		1.41	1.09		-			0.11	0.11		0.89	0.74		-			0.05	0.05		0.04	0.04		+	
Fisher's		Power	---		Power-50%		---	P-value		0.024	Power	0.014		Power-50%		0.000	P-value		0.198	Power	0.000		Power-50%		0.000	P-value		0.510
Stouffer's		Power	0.020		Power-50%		0.142	P-value		0.248	Power	0.006		Power-50%		0.008	P-value		0.458	Power	0.000		Power-50%		0.000	P-value		0.359
19C/19	2	6	0.55	0.37	5	17.85	11.63	0.8	-	0.368	6	0.55	0.37	5	16.10	10.89	0.8	-	0.374	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363
1642C/833	2	6	13.18	13.18	4	2.92	2.28	1.4	+	0.152	6	4.29	4.29	4	2.91	2.28	1.1	+	0.814	6	0.00	0.00	4	0.13	0.12	1.0	-	0.359
4537C/979	2	6	24.60	24.03	6	0.04	0.04	1.4	+	0.232	6	22.36	22.36	6	0.04	0.04	1.4	+	0.696	6	0.00	0.00	6	0.03	0.03	1.3	-	0.744
Habitat Means			12.78	12.52		6.94	4.65		+			9.07	9.01		6.35	4.40		+			0.00	0.00		0.06	0.05		-	
Fisher's		Power	0.001		Power-50%		0.036	P-value		0.130	Power	0.000		Power-50%		0.015	P-value		0.633	Power	0.009		Power-50%		0.009	P-value		0.444
Stouffer's		Power	---		Power-50%		0.213	P-value		0.073	Power	0.004		Power-50%		0.088	P-value		0.417	Power	0.010		Power-50%		---	P-value		0.317
19C/19	3	6	104.41	53.78	5	100.95	74.46	0.6	+	0.970	6	78.47	52.44	5	99.41	73.90	0.7	-	0.818	6	0.85	0.54	5	0.26	0.26	0.8	+	0.380
1642C/833	3	6	227.65	126.92	4	168.49	119.78	0.6	+	0.757	6	198.46	127.60	4	51.64	26.50	0.9	-	0.388	6	2.38	2.28	4	0.35	0.35	1.5	+	0.770
4537C/979	3	5	292.21	184.40	6	157.33	97.57	0.6	+	0.514	5	286.04	182.38	6	151.36	94.27	0.6	+	0.507	5	2.01	1.25	6	18.02	18.02	1.4	-	0.132
Habitat Means			208.09	121.70		142.25	97.27		+			187.66	120.81		100.80	64.89		+			1.75	1.36		6.21	6.21		+	
Fisher's		Power	0.016		Power-50%		0.078	P-value		0.411	Power	0.007		Power-50%		0.061	P-value		0.314	Power	0.080		Power-50%		0.080	P-value		0.497 y
Stouffer's		Power	0.031		Power-50%		0.150	P-value		0.240	Power	0.018		Power-50%		0.141	P-value		0.182	Power	0.140		Power-50%		0.462	P-value		0.814

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)															
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	1.04	0.99	1.2	-	0.353	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.02	0.02	4	1.50	1.11	0.8	-	0.190	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.15	0.15	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.06	0.06		0.85	0.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.058		Power-50%		---	P-value		0.199	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.050		Power-50%		---	P-value		0.457	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.55	0.37	5	9.24	4.93	0.6	-	0.393	6	0.00	0.00	5	6.86	6.86	1.3	-	0.374	6	0.00	0.00	5	6.86	6.86	1.3	-	0.374
1642C/833	2	6	4.29	4.29	4	2.53	2.20	1.1	+	0.763	6	0.00	0.00	4	0.25	0.25	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	16.45	16.45	6	0.00	0.00	1.4	+	0.542	6	5.92	5.92	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			7.10	7.03		3.92	2.38		+			1.97	1.97		2.37	2.37		-			0.00	0.00		2.29	2.29		-	
Fisher's		Power	0.001		Power-50%		0.020	P-value		0.547	Power	---		Power-50%		---	P-value		0.319	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	0.006		Power-50%		0.099	P-value		0.333	Power	---		Power-50%		---	P-value		0.547	Power	---		Power-50%		---	P-value		0.408
19C/19	3	6	77.41	52.43	5	99.15	73.97	0.7	-	0.811	6	0.20	0.13	5	0.00	0.00	1.0	+	0.182	6	0.20	0.13	5	0.00	0.00	1.0	+	0.182
1642C/833	3	6	195.56	127.46	4	50.66	26.45	0.9	+	0.394	6	0.52	0.38	4	0.63	0.43	0.7	-	0.857	6	0.52	0.38	4	0.45	0.45	0.9	+	0.913
4537C/979	3	5	178.45	174.31	6	23.34	18.27	1.1	+	0.893	5	105.58	105.58	6	110.00	80.90	0.9	-	0.974	5	105.58	105.58	6	1.42	1.42	1.3	+	0.738
Habitat Means			150.48	118.07		57.72	39.56		+			35.43	35.36		36.88	27.11		-			35.43	35.36		0.62	0.62		+	
Fisher's		Power	0.008		Power-50%		0.047	P-value		0.434	Power	0.019		Power-50%		0.403	P-value		0.767	Power	0.217		Power-50%		0.217	P-value		0.213
Stouffer's		Power	0.019		Power-50%		0.112	P-value		0.323	Power	0.007		Power-50%		0.530	P-value		0.593	Power	0.295		Power-50%		0.499	P-value		0.248

(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-3.62. Algal Biomass. Chlorophyta. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

Site Pair	MVD	Ulva fenestrata (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens (A) N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00	0.8	-	0.178	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374
1642C/833	1	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	1.55	1.11	0.8	-	0.125	6	0.00	0.00	4	1.55	1.11	0.8	-	0.256
4537C/979	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.52	0.37		+			0.00	0.00		0.52	0.37		-	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	0.314		Power-50%		0.128	P-value		0.103	Power	0.027		Power-50%		0.027	P-value		0.248
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	0.117		Power-50%		0.284	P-value		0.520	Power	0.022		Power-50%		---	P-value		0.494
19C/19	2	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	1.75	1.12	0.8	-	0.192	6	0.00	0.00	5	1.08	1.08	1.3	-	0.374
1642C/833	2	6	0.00	0.00	4	0.25	0.25	1.1	-	0.391	6	8.89	8.89	4	0.00	0.00	1.7	+	0.545	6	8.67	8.66	4	0.00	0.00	1.7	+	0.363
4537C/979	2	6	5.92	5.92	6	0.00	0.00	1.4	+	0.363	6	2.24	1.72	6	0.00	0.00	1.1	+	0.251	6	1.05	1.05	6	0.00	0.00	1.4	+	0.363
Habitat Means			1.97	1.97		0.08	0.08		+			3.71	3.54		0.59	0.37		+			3.24	3.24		0.36	0.36		-	
Fisher's		Power	---		Power-50%		---		P-value	0.514	Power	0.001		Power-50%		0.004	P-value		0.325	Power	0.000		Power-50%		0.000	P-value		0.299
Stouffer's		Power	---		Power-50%		---		P-value	0.363	Power	0.000		Power-50%		0.034	P-value		0.181	Power	0.000		Power-50%		0.004	P-value		0.167
19C/19	3	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	25.24	13.89	5	1.54	0.72	0.8	-	0.622	6	18.40	9.85	5	0.80	0.51	0.8	+	0.310
1642C/833	3	6	0.00	0.00	4	0.18	0.18	1.1	-	0.391	6	27.83	17.23	4	116.70	93.96	0.7	-	0.927	6	17.51	11.88	4	115.73	93.00	0.8	-	0.602
4537C/979	3	5	0.00	0.00	6	108.58	80.70	1.2	-	0.236	5	6.16	5.65	6	5.95	5.14	0.9	-	0.978	5	6.16	5.65	6	5.04	4.24	0.9	+	0.875
Habitat Means			0.00	0.00		36.25	26.96		-			19.74	12.26		41.40	33.27		+			14.03	9.13		40.52	32.59		+	
Fisher's		Power	0.030		Power-50%		---		P-value	0.178	Power	0.033		Power-50%		0.077	P-value		0.542 y	Power	0.022		Power-50%		0.022	P-value		0.412 y
Stouffer's		Power	---		Power-50%		---		P-value	0.080	Power	0.085		Power-50%		0.163	P-value		0.457	Power	0.058		Power-50%		0.158	P-value		0.442

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha melagonium (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.403	Power	---		Power-50%		---		P-value	0.403	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	---		Power-50%		---		P-value	0.223	Power	---		Power-50%		---		P-value	0.223	Power	---		Power-50%		---		P-value	0.500
19C/19	2	6	0.00	0.00	5	0.34	0.34	1.3	-	0.374	6	0.00	0.00	5	0.34	0.34	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00		- o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000
4537C/979	2	6	0.71	0.49	6	0.00	0.00	1.0	+	0.206	6	0.71	0.49	6	0.00	0.00	1.0	+	0.206	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.24	0.16		0.11	0.11		+			0.24	0.16		0.11	0.11		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000		P-value	0.386	Power	0.000		Power-50%		0.000	P-value		0.386	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	0.000		Power-50%		0.000		P-value	0.204	Power	0.000		Power-50%		0.000	P-value		0.204	Power	---		Power-50%		---		P-value	0.500
19C/19	3	6	0.00	0.00	5	0.74	0.74	1.3	-	0.374	6	0.00	0.00	5	0.74	0.74	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00		- o	1.000
1642C/833	3	6	1.40	1.40	4	0.00	0.00	1.7	-	0.363	6	1.40	1.40	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00		- o	1.000
4537C/979	3	5	0.00	0.00	6	0.91	0.91	1.6	-	0.363	5	0.00	0.00	6	0.91	0.91	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.47	0.47		0.55	0.55		-			0.47	0.47		0.55	0.55		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.306	Power	---		Power-50%		---		P-value	0.306	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	---		Power-50%		---		P-value	0.288	Power	---		Power-50%		---		P-value	0.288	Power	---		Power-50%		---		P-value	0.500

Table C-3.62. Algal Biomass. Chlorophyta. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

Site Pair	MVD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363
1642C/833	1	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.01	0.01	1.1	-	0.391	6	0.00	0.00	4	0.01	0.01	1.1	-	0.391
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.517 y	Power	---		Power-50%		---	P-value		0.514 y	Power	---		Power-50%		---	P-value		0.514 y
Stouffer's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.569	Power	---		Power-50%		---	P-value		0.569
19C/19	2	6	0.00	0.00	5	0.34	0.34	1.3	-	0.371	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	6	0.22	0.22	4	0.00	0.00	1.7	+	0.849	6	0.00	0.00	4	0.01	0.00	0.4	-	0.058	6	0.00	0.00	4	0.01	0.00	0.4	-	0.058
4537C/979	2	6	0.48	0.48	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.23	0.23		0.11	0.11		+			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.477	Power	0.000		Power-50%		---	P-value		0.131	Power	0.000		Power-50%		0.000	P-value		0.131
Stouffer's		Power	0.000		Power-50%		---	P-value		0.268	Power	0.000		Power-50%		---	P-value		0.181	Power	0.000		Power-50%		---	P-value		0.181
19C/19	3	6	6.83	6.83	5	0.00	0.00	1.6	+	0.363	6	0.70	0.44	5	0.00	0.00	1.0	+	0.357	6	0.70	0.44	5	0.00	0.00	1.0	+	0.357
1642C/833	3	6	8.92	5.23	4	0.97	0.97	0.9	-	0.261	6	1.36	1.36	4	0.15	0.15	1.6	-	0.923	6	1.36	1.36	4	0.15	0.15	1.6	+	0.923
4537C/979	3	5	0.00	0.00	6	0.00	0.00	1.3	-	0.374	5	0.00	0.00	6	0.02	0.02	1.4	-	0.884	5	0.00	0.00	6	0.02	0.02	1.4	-	0.884
Habitat Means			5.25	4.02		0.32	0.32		.			0.69	0.60		0.06	0.06		.			0.69	0.60		0.06	0.06		-	
Fisher's		Power	---		Power-50%		---	P-value		0.094	Power	0.135		Power-50%		0.316	P-value		0.405	Power	0.132		Power-50%		0.132	P value		0.405
Stouffer's		Power	---		Power-50%		0.123	P-value		0.064	Power	0.154		Power-50%		0.345	P-value		0.435	Power	0.138		Power-50%		0.364	P-value		0.435

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

Site Pair	MVD	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.01	0.01	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.514 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.569	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.01	0.00	0.4	-	0.058	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.131	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		---	P-value		0.181	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	6	0.70	0.44	5	0.00	0.00	1.0	+	0.357	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	6	1.36	1.36	4	0.00	0.00	1.7	.	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.15	0.15	1.1	-	0.391
4537C/979	3	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.02	0.02	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	.	o	1.000
Habitat Means			0.69	0.60		0.00	0.00		+			0.00	0.00		0.01	0.01		-			0.00	0.00		0.05	0.05		-	
Fisher's		Power	0.371		Power-50%		.291	P-value		0.116	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	---		Power-50%		.378	P-value		0.078	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.341

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.63. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Alaria sp. (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	290.62	249.43	5	1195.27	685.70	0.6	-	0.215	6	290.62	249.43	5	1102.00	656.12	0.7	-	0.246	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	1475.77	1327.93	4	954.45	863.94	1.0	+	0.779	6	1475.52	1327.96	4	945.55	856.75	1.0	-	0.775	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	1004.39	788.62	6	1.44	1.35	1.1	+	0.321	6	1003.20	788.72	6	1.44	1.35	1.1	+	0.358	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			923.59	788.66		717.05	517.00		+			923.11	788.70		683.00	504.74		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		0.034	P-value		0.449	Power	0.002		Power-50%		0.021	P-value		0.470	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.014		Power-50%		0.142	P-value		0.260	Power	0.015		Power-50%		0.116	P-value		0.273	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	177.61	159.73	5	1010.00	347.63	0.4	-	0.046	6	140.50	131.03	5	910.20	344.40	0.5	-	0.052	6	0.07	0.07	5	0.00	0.00	1.6	+	0.363
1642C/833	2	6	1770.04	753.01	4	668.53	266.42	0.5	+	0.287	6	1754.45	751.33	4	599.35	283.90	0.6	+	0.266	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	75.82	37.46	6	22.09	21.18	0.6	+	0.240	6	73.57	36.57	6	22.05	21.18	0.6	+	0.251	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			674.49	316.73		566.87	211.74		+			656.17	306.31		510.53	216.49		+			0.02	0.02		0.00	0.00		+	
Fisher's		Power	0.014		Power-50%		0.058	P-value		0.226x	Power	0.011		Power-50%		0.035	P-value		0.221x	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.016		Power-50%		0.134	P-value		0.165	Power	0.010		Power-50%		0.123	P-value		0.162	Power	---		Power-50%		---	P-value		0.406
19C/19	3	6	957.64	816.06	5	1413.07	735.35	0.7	-	0.694	6	946.37	813.64	5	1160.36	636.92	0.7	-	0.846	6	12.12	12.06	5	0.00	0.00	1.5	+	0.361
1642C/833	3	6	2796.44	1580.86	4	205.84	194.96	0.9	-	0.012	6	2421.00	1568.63	4	135.20	125.05	1.1	+	0.014	6	0.00	0.00	4	9.05	9.05	1.1	-	0.391
4537C/979	3	5	1905.67	1084.88	6	2414.71	1324.67	0.6	-	0.779	5	1900.28	1086.23	6	2109.94	1280.23	0.6	-	0.906	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1886.58	1160.60		1344.54	751.66		-			1755.88	1156.17		1135.17	680.74		-			4.04	4.02		3.02	3.02		+	
Fisher's		Power	0.011		Power-50%		0.036	P-value		0.675xy	Power	0.015		Power-50%		0.064	P-value		0.768xy	Power	0.000		Power-50%		0.000	P-value		0.513
Stouffer's		Power	0.010		Power-50%		0.097	P-value		0.807	Power	0.005		Power-50%		0.156	P-value		0.849	Power	0.000		Power-50%		0.000	P-value		0.569

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

		Fucus gardneri (P)								Laminaria sp. (P)								Petalonia fascia (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	290.62	249.43	5	1102.00	656.12	0.7	-	0.246	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	1475.52	1327.96	4	945.55	856.75	1.0	+	0.775	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	1003.20	788.72	6	1.44	1.35	1.1	+	0.358	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			923.11	788.70		683.00	504.74		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		0.018	P-value		0.470	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.014		Power-50%		0.126	P-value		0.273	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	140.09	131.12	5	910.20	344.40	0.5	-	0.051	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.35	0.35	5	0.00	0.00	1.6	+	0.363
1642C/833	2	6	1754.45	751.33	4	599.35	283.90	0.6	+	0.266	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	73.57	36.57	6	22.05	21.18	0.6	+	0.251	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			656.03	306.34		510.53	216.49		-			0.00	0.00		0.00	0.00		o			0.12	0.12		0.00	0.00		-	
Fisher's		Power	0.006		Power-50%		0.036	P-value		0.221x	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.005		Power-50%		0.119	P-value		0.162	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.406
19C/19	3	6	934.25	815.18	5	1160.36	636.92	0.7	-	0.837	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374
1642C/833	3	6	2421.00	1568.63	4	126.15	116.01	1.1	+	0.013	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	5	1900.28	1086.23	6	2109.93	1280.24	0.6	-	0.906	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363
Habitat Means			1751.84	1156.68		1132.15	677.72		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.016		Power-50%		0.079	P-value		0.765xy	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.227
Stouffer's		Power	0.005		Power-50%		0.151	P-value		0.851	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.160

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

Table C-3.63. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Browns									Analipus japonicus (P)									Chordaria flagelliformis (A)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	6.26	6.11	1.2	-	0.097	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	1.38	1.31	1.0	-	0.368	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	1.10	1.00	6	0.00	0.00	1.3	+	0.323	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.37	0.34		2.55	2.47		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.016		Power-50%		0.005	P-value		0.134	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.009		Power-50%		0.016	P-value		0.485	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.67	0.67	5	15.02	12.10	1.0	-	0.203	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	6	1.26	0.83	4	68.40	67.12	1.1	-	0.136	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	6	0.02	0.02	1.2	-	0.857	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.64	0.50		27.81	26.41		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.070	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.239		Power-50%		0.314	P-value		0.116	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	6	2.95	1.42	5	24.15	12.40	0.6	-	0.317	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	6	27.42	15.46	4	6.51	5.82	0.8	+	0.323	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	5	0.22	0.22	6	145.21	137.47	1.5	-	0.145	5	0.06	0.06	6	0.85	0.85	1.5	-	0.936	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			10.20	5.70		58.62	51.90		-			0.02	0.02		0.28	0.28		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.094		Power-50%		0.031	P-value		0.158	Power	---		Power-50%		---	P-value		0.637	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.148		Power-50%		0.144	P-value		0.157	Power	---		Power-50%		---	P-value		0.473	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Cystoseira geminata (P)									Total Dictyosiphon (A)									Dictyosiphon foeniculaceus (A)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.15	0.15	1.6	-	0.363	5	0.00	0.00	6	0.15	0.15	1.6	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.05	0.05		+			0.00	0.00		0.05	0.05		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.519 y	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.628	Power	---		Power-50%		---	P-value		0.223

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

Table C-3.63. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

Site Pair	MVD	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Eudesme virescens (AE) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	6.26	6.11	1.2	-	0.097
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	1.38	1.31	1.0	-	0.368
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.10	1.00	6	0.00	0.00	1.3	+	0.323
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.37	0.34		2.55	2.47		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	0.014		Power-50%		0.014	P-value		0.134
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.006		Power-50%		0.013	P-value		0.485
19C/19	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.67	0.67	5	15.02	12.10	1.0	-	0.203
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	1.26	0.83	4	68.40	67.12	1.1	-	0.136
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.02	0.02	1.2	-	0.857
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.64	0.50		27.81	26.41		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.070
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.224		Power-50%		0.326	P-value		0.116
19C/19	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	2.95	1.42	5	24.15	12.40	0.6	-	0.317
1642C/833	3	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	27.42	15.46	4	6.51	5.82	0.8	+	0.323
4537C/979	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.16	0.16	6	144.21	137.67	1.5	-	0.152
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			10.18	5.68		58.29	51.97		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	0.081		Power-50%		0.081	P-value		0.163
Stouffer's		Power	---		Power-50%		---	P-value		0.332	Power	---		Power-50%		---	P-value		0.500	Power	0.134		Power-50%		0.168	P-value		0.162

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	87.01	86.92	1.3	-	0.101	6	0.00	0.00	5	0.00	0.00	0.8	-	0.178	6	0.00	0.00	5	81.04	80.96	1.3	-	0.110
1642C/833	1	6	0.25	0.25	4	7.51	7.51	1.1	-	0.407	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.25	0.25	4	7.51	7.50	1.1	-	0.407
4537C/979	1	6	0.04	0.03	6	0.00	0.00	1.3	+	0.338	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.03	0.03	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.10	0.10		31.51	31.48		-			0.00	0.00		0.00	0.00		-			0.10	0.10		29.52	29.49		-	
Fisher's		Power	0.005		Power-50%		0.042	P-value		0.146	Power	0.141		Power-50%		---	P-value		0.148	Power	0.005		Power-50%		0.005	P-value		0.153
Stouffer's		Power	0.003		Power-50%		0.230	P-value		0.491	Power	0.141		Power-50%		---	P-value		0.223	Power	0.008		Power-50%		---	P-value		0.479
19C/19	2	6	2.67	2.65	5	84.76	39.19	0.6	-	0.050	6	0.00	0.00	5	0.02	0.02	1.3	-	0.374	6	2.67	2.65	5	50.98	18.91	0.5	-	0.054
1642C/833	2	6	14.33	8.55	4	0.78	0.57	1.0	+	0.752	6	1.10	1.10	4	0.20	0.17	1.5	+	0.497	6	13.08	7.66	4	0.43	0.42	1.0	+	0.572
4537C/979	2	6	0.76	0.76	6	0.02	0.02	1.4	+	0.778	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.23	0.23	6	0.02	0.02	1.3	+	0.558
Habitat Means			5.92	3.98		28.52	13.26		+			0.37	0.37		0.08	0.06		-			5.32	3.51		17.14	6.45		+	
Fisher's		Power	0.001		Power-50%		0.075	P-value		0.691xy	Power	0.019		Power-50%		---	P-value		0.504 y	Power	0.001		Power-50%		0.001	P-value		0.530xy
Stouffer's		Power	0.003		Power-50%		0.391	P-value		0.550	Power	0.069		Power-50%		---	P-value		0.537	Power	0.004		Power-50%		0.409	P-value		0.398
19C/19	3	6	8.25	3.45	5	228.56	115.44	0.6	-	0.049	6	0.03	0.03	5	0.11	0.11	1.0	-	0.470	6	8.22	3.43	5	228.42	115.35	0.6	-	0.049
1642C/833	3	6	346.15	170.38	4	64.14	64.14	0.7	+	0.234	6	0.07	0.07	4	0.00	0.00	1.7	+	0.363	6	324.42	168.80	4	63.49	63.49	0.8	+	0.263
4537C/979	3	5	1.63	0.61	6	157.33	86.33	0.8	-	0.422	5	0.62	0.50	6	0.00	0.00	1.0	+	0.372	5	0.70	0.70	6	154.07	87.35	0.9	-	0.029
Habitat Means			118.67	58.14		150.01	88.64		-			0.24	0.20		0.04	0.04		+			111.11	57.64		148.66	88.73		-	
Fisher's		Power	---		Power-50%		---	P-value		0.096	Power	0.054		Power-50%		0.095	P-value		0.293	Power	---		Power-50%		---	P-value		0.013
Stouffer's		Power	0.308		Power-50%		0.346	P-value		0.269	Power	0.135		Power-50%		0.237	P-value		0.160	Power	---		Power-50%		---	P-value		0.035

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

Table C-3.63. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Colpomenia peregrina (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	5.96	5.96	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.05	0.05	6	0.00	0.00	1.4	+	0.346	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.99	1.99		-			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.319	Power	0.000		Power-50%		0.000	P-value		0.393	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.547	Power	0.000		Power-50%		0.000	P-value		0.215	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	5	33.75	33.75	1.3	-	0.374	6	33.77	26.86	5	0.02	0.02	1.2	+	0.386	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	6	0.16	0.16	4	0.15	0.15	1.0	+	0.979	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	0.53	0.53	6	0.00	0.00	1.4	+	0.363	6	1.49	0.71	6	0.00	0.00	0.7	+	0.102	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.23	0.23		11.30	11.30		+			11.75	9.19		0.01	0.01		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.512 y	Power	0.335		Power-50%		0.157	P-value		0.100	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		---	P-value		0.294	Power	---		Power-50%		---	P-value		0.055	Power	---		Power-50%		---	P-value		0.500
19C/19	3	6	0.00	0.00	5	0.02	0.02	1.2	-	0.694	6	0.00	0.00	5	0.00	0.00	0.8	+	0.662	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	6	21.66	13.57	4	0.65	0.65	1.1	+	0.061	6	1.54	1.38	4	0.00	0.00	1.6	+	0.315	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	5	0.30	0.20	6	3.26	3.26	1.4	-	0.806	5	0.22	0.22	6	0.09	0.08	1.0	-	0.551	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			7.32	4.59		1.31	1.31		-			0.59	0.53		0.03	0.03		·			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.137	P-value		0.677xy	Power	0.080		Power-50%		0.107	P-value		0.204	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.008		Power-50%		0.288	P-value		0.723	Power	0.223		Power-50%		0.382	P-value		0.137	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P	Soranthera ulvoides (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.05	0.05	6	0.00	0.00	1.4	+	0.346	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.02	0.02		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.000	P-value		0.393	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.215	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	1.89	1.88	5	0.02	0.02	1.5	-	0.615	6	31.88	26.86	5	0.00	0.00	1.3	+	0.289	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	0.43	0.27	6	0.00	0.00	0.9	+	0.291	6	1.06	0.64	6	0.00	0.00	0.8	+	0.155	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.77	0.72		0.01	0.01		+			10.98	9.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.001	P-value		0.269	Power	0.172		Power-50%		0.104	P-value		0.110	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.003		Power-50%		0.008	P-value		0.155	Power	---		Power-50%		---	P-value		0.071	Power	---		Power-50%		---	P-value		0.500
19C/19	3	6	0.00	0.00	5	0.00	0.00	1.0	-	0.900	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.07	0.07	5	0.00	0.00	1.6	+	0.363
1642C/833	3	6	1.54	1.38	4	0.00	0.00	1.6	+	0.315	6	0.00	0.00	4	0.00	0.00	1.1	+	0.175	6	0.33	0.33	4	0.00	0.00	1.7	+	0.363
4537C/979	3	5	0.18	0.18	6	0.00	0.00	1.2	+	0.555	5	0.04	0.04	6	0.08	0.08	1.1	-	0.672	5	3.32	3.32	6	2.15	2.15	1.0	+	0.767
Habitat Means			0.57	0.52		0.00	0.00		·			0.02	0.01		0.03	0.03		+			1.24	1.24		0.72	0.72		+	
Fisher's		Power	0.071		Power-50%		0.072	P-value		0.281	Power	0.181		Power-50%		0.300	P-value		0.168 y	Power	---		Power-50%		---	P-value		0.189
Stouffer's		Power	0.204		Power-50%		0.328	P-value		0.173	Power	0.191		Power-50%		0.383	P-value		0.297	Power	---		Power-50%		---	P-value		0.179

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

Table C-3.63. Algal Biomass. Phaeophyta. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

		Ralfsia fungiformis (P)																											
[illegible]	MTD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000																		
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
19C/19	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000																		
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000																		
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
19C/19	3	6	0.07	0.07	5	0.00	0.00	1.6	+	0.363																		
1642C/833	3	6	0.33	0.33	4	0.00	0.00	1.7	-	0.363																		
4537C/979	3	5	3.32	3.32	6	2.15	2.15	1.0	-	0.767																		
Habitat Means			1.24	1.24		0.72	0.72		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.189	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.179	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.64. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Constantinea simplex (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	2.97	2.58	5	55.16	54.44	1.2	-	0.994	6	0.33	0.22	5	4.40	4.40	1.2	-	0.852	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	2.90	2.88	4	239.45	177.34	0.8	-	0.005	6	0.00	0.00	4	1.38	1.34	1.1	-	0.379	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	302.32	159.76	6	0.27	0.18	0.7	+	0.108	6	1.50	1.29	6	0.00	0.00	1.2	+	0.298	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			102.73	55.07		98.29	77.32		-			0.61	0.51		1.93	1.91		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.035 y	Power	0.007		Power-50%		0.074	P-value		0.499	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.028		Power-50%		0.304	P-value		0.498	Power	0.002		Power-50%		0.149	P-value		0.656	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	226.19	141.42	5	600.88	582.31	0.9	-	0.512	6	1.57	1.28	5	416.31	416.13	1.3	-	0.258	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	6	369.22	263.73	4	420.70	239.71	0.7	-	0.896	6	0.20	0.20	4	196.03	178.77	1.0	-	0.005	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	2419.41	605.38	6	18.24	16.80	0.4	-	0.005	6	7.10	5.94	6	0.32	0.32	1.1	-	0.197	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1004.94	336.84		346.61	279.61		-			2.96	2.47		204.22	198.41		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.010		Power-50%		0.123	P-value		0.631xy	Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.002		Power-50%		0.237	P-value		0.983	Power	0.083		Power-50%		0.395	P-value		0.289	Power	---		Power-50%		---	P-value		0.500
19C/19	3	6	431.20	248.14	5	836.05	645.92	0.7	-	0.545	6	13.07	6.10	5	116.53	110.04	1.1	-	0.456	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	6	1271.21	401.47	4	418.44	207.78	0.4	+	0.145	6	22.78	10.10	4	68.49	33.53	0.4	-	0.158	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	5	1085.21	483.32	6	978.65	498.28	0.5	+	0.883	5	142.30	132.38	6	635.80	444.53	0.9	-	0.355	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			929.21	377.64		744.38	450.66		+			59.39	49.52		273.60	196.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.018		Power-50%		0.041	P-value		0.275	Power	---		Power-50%		---	P-value		0.074	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.051		Power-50%		0.100	P-value		0.253	Power	---		Power-50%		---	P-value		0.050	Power	---		Power-50%		---	P-value		0.500

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

		Gigartinaceae Group (P) (a)								Total Palmaria (A)								Palmaria spp. (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	4.40	4.40	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	1.18	1.17	1.1	-	0.389	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	1.47	1.30	6	0.00	0.00	1.2	+	0.309	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.49	0.43		1.86	1.86		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.000	P-value		0.324	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		0.000	P-value		0.582	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	1.47	1.18	5	8.58	8.48	1.1	-	0.622	6	0.10	0.10	5	402.41	402.41	1.3	-	0.419	6	0.00	0.00	5	0.34	0.34	1.3	-	0.371
1642C/833	2	6	0.20	0.20	4	111.60	101.61	1.0	-	0.056	6	0.00	0.00	4	83.53	77.32	1.0	-	0.359	6	0.00	0.00	4	2.23	2.23	1.1	-	0.391
4537C/979	2	6	7.10	5.94	6	0.32	0.32	1.1	+	0.127	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.92	2.44		40.17	36.80		-			0.03	0.03		161.98	159.91		-			0.00	0.00		0.85	0.85		-	
Fisher's		Power	0.053		Power-50%		0.144	P-value		0.141	Power	0.001		Power-50%		---	P-value		0.242	Power	0.001		Power-50%		0.001	P-value		0.237
Stouffer's		Power	0.064		Power-50%		0.406	P-value		0.592	Power	0.003		Power-50%		---	P-value		0.258	Power	0.001		Power-50%		---	P-value		0.260
19C/19	3	6	1.20	0.73	5	26.26	25.96	1.2	-	0.986	6	5.91	4.00	5	3.90	3.85	0.8	+	0.730	6	0.15	0.15	5	0.00	0.00	1.6	+	0.363
1642C/833	3	6	7.15	2.77	4	31.59	16.70	0.5	-	0.427	6	1.10	0.84	4	26.75	26.09	1.0	-	0.430	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
4537C/979	3	5	5.32	3.73	6	148.22	99.00	1.0	-	0.691	5	1.78	1.78	6	427.75	406.10	1.5	-	0.279	5	0.00	0.00	6	1.28	1.28	1.6	-	0.363
Habitat Means			4.56	2.41		68.69	47.22		-			2.93	2.20		152.80	145.35		-			0.05	0.05		0.43	0.43		+	
Fisher's		Power	0.078		Power-50%		0.158	P-value		0.357	Power	0.057		Power-50%		0.064	P-value		0.244	Power	---		Power-50%		---	P-value		0.301 y
Stouffer's		Power	0.146		Power-50%		0.270	P-value		0.236	Power	0.113		Power-50%		0.200	P-value		0.116	Power	---		Power-50%		---	P-value		0.535

(a) Chondrus, Tridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.64. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

Site Pair	MVD	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV	D	P	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			*0.00*	*0.00*		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	395.61	395.61	1.3	-	0.374	6	0.10	0.10	5	6.46	6.46	1.3	-	0.706
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	5.70	5.70	1.1	-	0.391	6	0.00	0.00	4	75.60	72.27	1.0	-	0.372
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		133.77	133.77		-			0.03	0.03		27.35	26.24		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.238	Power	0.004		Power-50%		0.004	P-value		0.337
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.260	Power	0.012		Power-50%		---	P-value		0.300
19C/19	3	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	4.97	3.87	5	3.86	3.86	0.9	+	0.846	6	0.79	0.79	5	0.04	0.04	1.5	+	0.912
1642C/833	3	6	1.10	0.84	4	0.80	0.80	0.9	+	0.812	6	*0.00*	*0.00*	4	*22.63*	*21.96*	1.1	-	0.379	6	0.00	0.00	4	3.33	3.32	1.1	-	0.391
4537C/979	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.44	0.44	6	423.43	406.86	1.5	-	0.460	5	1.34	1.34	6	3.03	3.03	1.1	-	0.646
Habitat Means			0.37	0.28		0.27	0.27		-			1.80	1.44		149.97	144.23		-			0.71	0.71		2.13	2.13		-	
Fisher's		Power	0.006		Power-50%		0.003	P-value		0.448 y	Power	0.035		Power-50%		0.023	P-value		0.288	Power	0.002		Power-50%		0.002	P-value		0.345
Stouffer's		Power	0.011		Power-50%		0.001	P-value		0.453	Power	0.154		Power-50%		0.037	P-value		0.161	Power	0.043		Power-50%		---	P-value		0.222

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

Site Pair	MVD	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P	*Porphyra sp.* (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.33	0.22	5	0.00	0.00	1.0	+	0.377	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.20	0.17	0.9	+	0.320	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.03	0.03	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.12	0.09		0.07	0.06		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.009		Power-50%		0.062	P-value		0.312	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.003		Power-50%		0.099	P-value		0.303	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.06	0.06	1.2	-	0.632	6	0.00	0.00	5	5.26	5.26	1.3	-	0.374
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.90	0.74	0.9	-	0.309	6	0.00	0.00	4	0.00	0.00	-	o	*1.000*
4537C/979	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.32	0.27		-			0.00	0.00		1.75	1.75		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.149		Power-50%		---	P-value		0.150	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.085	Power	---		Power-50%		---	P-value		0.408
19C/19	3	6	0.00	0.00	5	0.08	0.08	1.2	-	0.618	6	5.97	2.61	5	1.13	0.74	0.6	+	0.137	6	0.00	0.00	5	85.16	85.16	1.3	-	0.374
1642C/833	3	6	2.98	1.96	4	0.00	0.00	1.1	+	0.188	6	0.20	0.20	4	10.15	7.12	0.8	-	0.009	6	11.35	7.81	4	0.00	0.00	1.2	+	0.206
4537C/979	3	5	0.04	0.04	6	4.57	3.25	1.1	-	0.645	5	135.16	126.93	6	48.57	34.25	0.9	+	0.491	5	0.00	0.00	6	6.68	4.59	1.1	-	0.205
Habitat Means			1.01	0.67		1.55	1.11		-			47.11	43.25		19.95	14.04		+			3.78	2.60		30.61	29.92		-	
Fisher's		Power	0.009		Power-50%		*0.163*	*P-value*		*0.569*	*Power*	*0.019*		Power-50%		0.181	P-value		0.225x	Power	0.004		Power-50%		0.004	P-value		0.229
Stouffer's		Power	0.004		Power-50%		0.375	P-value		0.546	Power	0.010		Power-50%		0.352	P-value		0.613	Power	0.002		Power-50%		0.001	P-value		0.246

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

Table C-3.64. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds								Ahnfeltia fastigata (P)								Cryptosiphonia woodii (A)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	2.63	2.63	5	1.00	0.63	1.1	+	0.596	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	2.90	2.88	4	215.19	184.99	0.9	-	0.008	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
4537C/979	1	6	300.80	159.62	6	0.27	0.18	0.7	+	0.108	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.78	0.61	6	0.00	0.00	1.1	+	0.253
Habitat Means			102.11	55.05		72.15	61.93		+			0.00	0.00		0.00	0.00		o			0.26	0.20		0.00	0.00		+	
Fisher's		Power	0.006		Power-50%		0.043	P-value		0.219x	Power	---		Power-50%		---	P-value		0.655	Power	0.001		Power-50%		0.001	P-value		0.428
Stouffer's		Power	0.001		Power-50%		0.223	P-value		0.414	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.292
19C/19	2	6	222.00	138.73	5	167.61	151.10	0.7	+	0.797	6	0.08	0.08	5	0.00	0.00	1.6	+	0.363	6	6.20	6.02	5	28.20	28.20	1.1	-	0.827
1642C/833	2	6	362.97	263.05	4	145.67	13.21	0.9	+	0.295	6	0.05	0.05	4	0.00	0.00	1.7	+	0.363	6	2.78	2.78	4	42.75	36.00	0.9	-	0.275
4537C/979	2	6	2301.97	620.75	6	17.92	16.48	0.4	+	0.005	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	76.07	66.10	6	0.00	0.00	1.2	+	0.302
Habitat Means			962.32	340.84		110.40	60.27		+			0.04	0.04		0.00	0.00		+			28.35	24.97		23.65	21.40		-	
Fisher's		Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.223	Power	0.011		Power-50%		0.011	P-value		0.416 y
Stouffer's		Power	---		Power-50%		0.251	P-value		0.002	Power	---		Power-50%		---	P-value		0.251	Power	0.000		Power-50%		0.247	P-value		0.612
19C/19	3	6	274.94	218.76	5	636.12	481.90	0.8	-	0.487	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	18.15	11.27	5	91.45	65.58	0.8	-	0.872
1642C/833	3	6	866.58	281.70	4	261.52	109.32	0.4	+	0.134	6	0.50	0.35	4	0.00	0.00	1.2	+	0.213	6	39.44	15.94	4	5.88	5.82	0.6	+	0.139
4537C/979	3	5	909.19	458.40	6	310.10	197.38	0.5	+	0.232	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	6.98	6.61	6	56.44	40.01	1.0	-	0.615
Habitat Means			683.57	319.62		402.58	262.87		+			0.17	0.12		0.00	0.00		+			21.52	11.27		51.26	37.14		-	
Fisher's		Power	0.072		Power-50%		0.140	P-value		0.114	Power	0.000		Power-50%		0.000	P-value		0.298	Power	0.007		Power-50%		0.007	P-value		0.654
Stouffer's		Power	---		Power-50%		0.227	P-value		0.062	Power	0.000		Power-50%		0.000	P-value		0.275	Power	0.010		Power-50%		0.252	P-value		0.597

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

Site Pair	MVD	Dumontia contorta (AE)									Endocladia muricata (P)									Gloiopeltis furcata (A)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.00	1.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	2.27	2.27	4	189.46	184.04	1.1	-	0.072	6	0.62	0.62	4	25.56	17.37	0.7	-	0.009
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.18	0.18	6	0.17	0.17	1.0	-	0.948
Habitat Means			0.00	0.00		0.00	0.00		o			1.09	1.09		63.15	61.35		-			0.27	0.27		8.57	5.85		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.006		Power-50%		---	P-value		0.207	Power	---		Power-50%		---	P-value		0.017
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		---	P-value		0.266	Power	---		Power-50%		---	P-value		0.076
19C/19	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	2.65	2.65	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.02	0.02	1.1	-	0.324
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	13.38	13.34	4	14.48	12.33	1.0	-	0.956	6	7.50	5.33	4	57.93	33.06	0.6	-	0.181
4537C/979	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.50	1.50	6	0.13	0.13	1.3	+	0.871
Habitat Means			0.00	0.00		0.00	0.00		+			5.34	5.33		4.83	4.11		-			3.00	2.28		19.36	11.07		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.000		Power-50%		0.000	P-value		0.412	Power	0.121		Power-50%		0.121	P-value		0.143
Stouffer's		Power	---		Power-50%		---	P-value		0.223	Power	0.000		Power-50%		0.001	P-value		0.417	Power	0.197		Power-50%		0.004	P-value		0.223
19C/19	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.01	0.00	0.5	-	0.070
1642C/833	3	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	5.55	5.55	1.1	-	0.391	6	13.59	13.13	4	132.75	89.69	0.7	-	0.365
4537C/979	3	5	4.76	3.46	6	0.30	0.30	0.9	+	0.499	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	82.86	82.61	6	0.55	0.42	1.3	+	0.578
Habitat Means			1.59	1.15		0.10	0.10		+			0.00	0.00		1.85	1.85		+			32.15	31.91		44.44	30.04		-	
Fisher's		Power	0.008		Power-50%		0.057	P-value		0.271	Power	0.000		Power-50%		---	P-value		0.522 y	Power	---		Power-50%		---	P-value		0.096
Stouffer's		Power	0.018		Power-50%		0.077	P-value		0.158	Power	0.000		Power-50%		---	P-value		0.369	Power	0.139		Power-50%		0.015	P-value		0.330

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

Table C-3.64. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

Site Pair	MVD	Total Neorhodomela/Rhodomela (P)								Neorhodomela/Rhodomela spp. (P) (b)								Neorhodomela larix (P)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.97	0.97	5	1.00	0.63	0.9	-	0.979	6	0.97	0.97	5	1.00	0.63	0.9	-	0.979	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.02	0.02	4	0.00	0.00	1.7	+	0.363	6	0.02	0.02	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	299.65	159.36	6	0.10	0.10	0.8	+	0.043	6	203.77	155.40	6	0.10	0.10	1.1	+	0.154	6	95.88	94.53	6	0.00	0.00	1.4	+	0.357
Habitat Means			100.21	53.45		0.37	0.24		+			68.25	52.13		0.37	0.24		+			31.96	31.51		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.053	Power	0.036		Power-50%		0.017	P-value		0.130	Power	0.000		Power-50%		0.000	P-value		0.399
Stouffer's		Power	---		Power-50%		0.134	P-value		0.017	Power	---		Power-50%		---	P-value		0.052	Power	0.000		Power-50%		0.000	P-value		0.220
19C/19	2	6	212.10	134.87	5	138.87	122.52	0.7	+	0.702	6	210.88	135.22	5	138.87	122.52	0.7	+	0.708	6	1.22	1.22	5	0.00	0.00	1.6	-	0.363
1642C/833	2	6	339.26	267.78	4	7.67	7.67	1.3	+	0.554	6	323.31	252.33	4	7.67	7.67	1.3	+	0.555	6	15.95	15.95	4	0.00	0.00	1.7	-	0.363
4537C/979	2	6	2223.25	642.18	6	17.77	16.35	0.4	+	0.005	6	2112.72	604.25	6	17.77	16.35	0.4	+	0.005	6	110.53	105.25	6	0.00	0.00	1.3	-	0.342
Habitat Means			924.87	348.28		54.77	48.85		+			882.30	330.60		54.77	48.85		+			42.57	40.81		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value		0.011	Power	0.197		Power-50%		0.197	P-value		0.110
Stouffer's		Power	---		Power-50%		0.203	P-value		0.003	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.071
19C/19	3	6	106.88	82.06	5	541.43	415.31	0.8	-	0.867	6	105.85	82.32	5	533.07	415.69	0.9	-	0.589	6	1.03	1.03	5	8.36	8.06	1.1	-	0.439
1642C/833	3	6	813.06	279.02	4	1.25	1.25	0.6	+	0.032	6	669.82	226.62	4	1.25	1.25	0.6	+	0.033	6	143.24	87.99	4	0.00	0.00	1.1	-	0.165
4537C/979	3	5	798.94	484.44	6	228.26	157.05	0.6	-	0.256	5	285.34	178.17	6	162.86	96.01	0.6	+	0.341	5	513.60	355.28	6	65.40	64.70	0.8	-	0.592
Habitat Means			572.96	281.84		256.98	191.20		-			353.67	162.37		232.39	170.99		+			219.29	148.10		24.59	24.25		+	
Fisher's		Power	---		Power-50%		---	P-value		0.036	Power	---		Power-50%		---	P-value		0.073	Power	0.054		Power-50%		0.054	P-value		0.244
Stouffer's		Power	---		Power-50%		0.169	P-value		0.027	Power	---		Power-50%		---	P-value		0.082	Power	0.146		Power-50%		0.138	P-value		0.181

(b) Neorhodomela larix not included.

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

Site Pair	MVD	Neoptilota asplenioides (P)									Ptilota sp. (P)									Odonthalia floccosa (P)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.67	0.67	5	0.00	0.00	1.6	+	0.363
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.18	0.18	1.1	-	0.391
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.05	0.05	6	0.00	0.00	1.4	+	0.363	6	0.13	0.13	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.02	0.02		0.00	0.00		+			0.27	0.27		0.06	0.06		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.298
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.278
19C/19	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.03	0.03	5	0.52	0.52	1.2	-	0.480	6	0.93	0.93	5	0.00	0.00	1.6	-	0.363
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	22.85	22.85	1.1	-	0.391
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.87	0.64	6	0.00	0.00	1.0	+	0.232	6	0.28	0.28	6	0.02	0.02	1.3	-	0.817
Habitat Means			0.00	0.00		0.00	0.00		o			0.30	0.22		0.17	0.17		+			0.41	0.41		7.62	7.62		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.040	P-value		0.397	Power	---		Power-50%		---	P-value		0.465 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		0.058	P-value		0.207	Power	---		Power-50%		---	P-value		0.492
19C/19	3	6	0.00	0.00	5	0.12	0.12	1.3	-	0.600	6	0.05	0.05	5	0.34	0.27	0.9	-	0.214	6	149.86	133.88	5	2.77	1.70	1.4	+	0.442
1642C/833	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	216.08	216.08	1.1	-	0.391
4537C/979	3	5	0.18	0.18	6	2.08	1.62	1.1	-	0.311	5	12.90	10.81	6	19.36	11.25	0.7	-	0.693	5	2.56	1.92	6	3.11	1.76	0.6	-	0.838
Habitat Means			0.06	0.06		0.73	0.58		-			4.32	3.62		6.57	3.84		-			50.81	45.26		40.65	39.85		-	
Fisher's		Power	0.043		Power-50%		---	P-value		0.276	Power	0.018		Power-50%		0.081	P-value		0.321	Power	0.010		Power-50%		0.010	P-value		0.481 y
Stouffer's		Power	0.080		Power-50%		---	P-value		0.162	Power	0.017		Power-50%		0.237	P-value		0.413	Power	0.036		Power-50%		0.012	P-value		0.352

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

Table C-3.64. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

		Morphological Group - Fine Filamentous Reds								Antithamnion/Antithamnionella (A) (b)								Audouinella purpurea (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	0.23	0.23	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.08	0.08		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.298 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	0.49	0.31	5	11.26	10.43	1.1	-	0.638	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	2	6	6.05	5.38	4	5.21	4.71	0.9	*	0.926	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	4.94	3.96	6	0.00	0.00	1.1	-	0.268	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			3.82	3.22		5.49	5.05		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.007		Power-50%		0.164	P-value		0.385 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.053		Power-50%		0.402	P-value		0.196	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
19C/19	3	6	105.88	53.32	5	69.92	55.68	0.6	*	0.654	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	3	6	272.88	184.46	4	67.19	67.19	1.0	*	0.410	6	0.00	0.00	4	0.00	0.00	1.1	-	0.175	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	3	5	23.98	23.98	6	24.18	10.95	0.7	-	0.994	5	0.00	0.00	6	0.00	0.00	1.0	-	0.900	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			134.25	87.25		53.76	44.60		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.005		Power-50%		0.066	P-value		0.342	Power	0.079		Power-50%		0.132	P-value		0.249	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.015		Power-50%		0.246	P-value		0.307	Power	0.074		Power-50%		0.130	P-value		0.225	Power	---		Power-50%		---	P-value		0.500

(b) Genera not separated.

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

		Callithamnion pikeanum (A)								Ceramium sp. (A)								Polysiphonia/Pterosiphonia (A) (a)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363
1642C/833	1	6	0.00	0.00	4	0.10	0.10	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.13	0.13	1.1	-	0.391
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		o			0.01	0.01		0.04	0.04		+	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.298 y
Stouffer's		Power	---		Power-50%		---	P-value		0.341	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.278
19C/19	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.49	0.31	5	11.26	10.43	1.1	-	0.613
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	6.05	5.38	4	5.21	4.71	0.9	*	0.916
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.94	3.96	6	0.00	0.00	1.1	+	0.268
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			3.82	3.22		5.49	5.05		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	0.008		Power-50%		0.008	P-value		0.389 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.406	Power	0.043		Power-50%		0.390	P-value		0.199
19C/19	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	105.88	53.32	5	67.56	53.33	0.6	+	0.627
1642C/833	3	6	0.18	0.18	4	1.48	1.48	1.0	-	0.692	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	270.99	183.20	4	65.71	65.71	1.0	+	0.408
4537C/979	3	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.22	0.22	6	0.00	0.00	1.3	+	0.374	5	23.76	23.76	6	24.17	10.95	0.7	-	0.987
Habitat Means			0.06	0.06		0.49	0.49		-			0.07	0.07		0.00	0.00		+			133.54	86.76		52.48	43.33		+	
Fisher's		Power	---		Power-50%		---	P-value		0.328	Power	---		Power-50%		---	P-value		0.409	Power	0.007		Power-50%		0.007	P-value		0.334
Stouffer's		Power	---		Power-50%		---	P-value		0.171	Power	---		Power-50%		---	P-value		0.228	Power	0.019		Power-50%		0.236	P-value		0.305

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

Table C-3.64. Algal Biomass. Rhodophyta. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

Site Pair	MVD	Scagelia/Hollenbergia (P) (b) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	49.76	49.76	1.3	-	0.374	6	0.00	0.00	5	49.76	49.76	1.3	-	0.374
1642C/833	1	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	22.65	20.20	1.0	-	0.344	6	0.00	0.00	4	22.65	20.20	1.0	-	0.344
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		24.14	23.32		-			0.00	0.00		24.14	23.32		-	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	0.005		Power-50%		---		P-value	0.220	Power	0.005		Power-50%		0.005		P-value	0.220
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	0.013		Power-50%		---		P-value	0.246	Power	0.012		Power-50%		---		P-value	0.246
19C/19	2	6	0.00	0.00	5	0.00	0.00	1.0	-	0.900	6	2.13	1.83	5	4.70	4.05	0.9	-	0.554	6	2.13	1.83	5	4.70	4.05	0.9	-	0.554
1642C/833	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	73.80	59.15	0.9	-	0.301	6	0.00	0.00	4	73.80	59.15	0.9	-	0.301
4537C/979	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	105.14	104.17	6	0.00	0.00	1.4	-	0.359	6	105.14	104.17	6	0.00	0.00	1.4	+	0.359
Habitat Means			0.00	0.00		0.00	0.00		-			35.76	35.34		26.17	21.07		-			35.76	35.34		26.17	21.07		-	
Fisher's		Power	---		Power-50%		---		P-value	0.627 y	Power	0.006		Power-50%		0.006		P-value	0.344 y	Power	0.007		Power-50%		0.007		P-value	0.344 y
Stouffer's		Power	---		Power-50%		---		P-value	0.487	Power	0.001		Power-50%		0.017		P-value	0.547	Power	0.001		Power-50%		0.013		P-value	0.547
19C/19	3	6	0.00	0.00	5	2.36	2.36	1.3	-	0.374	6	33.80	16.39	5	10.21	5.83	0.6	+	0.243	6	33.80	16.39	5	10.21	5.83	0.6	+	0.243
1642C/833	3	6	1.70	1.37	4	0.00	0.00	1.4	+	0.269	6	9.21	6.64	4	21.23	17.32	0.7	-	0.474	6	9.21	6.64	4	21.23	17.32	0.7	-	0.474
4537C/979	3	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	7.14	4.48	6	6.87	4.91	0.7	-	0.969	5	7.14	4.48	6	6.87	4.91	0.7	+	0.969
Habitat Means			0.57	0.46		0.79	0.79		-			16.72	9.17		12.77	9.35		+			16.72	9.17		12.77	9.35		+	
Fisher's		Power	0.001		Power-50%		0.001		P-value	0.316	Power	0.039		Power-50%		0.071		P-value	0.400	Power	0.038		Power-50%		0.038		P-value	0.400
Stouffer's		Power	0.001		Power-50%		0.000		P-value	0.321	Power	0.107		Power-50%		0.164		P-value	0.502	Power	0.109		Power-50%		0.194		P-value	0.502

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

Site Pair	MVD	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Calcified Reds N	C	SE	N	O	SE	CV	D	P	Articulate Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	0.00	0.00	5	49.76	49.76	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
1642C/833	1	6	0.00	0.00	4	22.65	20.20	1.0	-	0.344	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		24.14	23.32		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.006		Power-50%		---		P-value	0.220	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	0.013		Power-50%		---		P-value	0.246	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
19C/19	2	6	2.13	1.83	5	4.70	4.05	0.9	-	0.554	6	0.00	0.00	5	1.00	1.00	1.3	-	0.374	6	0.00	0.00	5	1.00	1.00	1.3	-	0.374
1642C/833	2	6	0.00	0.00	4	73.80	59.15	0.9	-	0.301	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	105.14	104.17	6	0.00	0.00	1.4	+	0.359	6	0.27	0.27	6	0.00	0.00	1.4	+	0.363	6	0.27	0.27	6	0.00	0.00	1.4	+	0.363
Habitat Means			35.76	35.34		26.17	21.07		-			0.09	0.09		0.33	0.33		+			0.09	0.09		0.33	0.33		+	
Fisher's		Power	0.004		Power-50%		0.011		P-value	0.344 y	Power	---		Power-50%		---		P-value	0.517 y	Power	---		Power-50%		---		P-value	0.517 y
Stouffer's		Power	0.001		Power-50%		0.015		P-value	0.547	Power	---		Power-50%		---		P-value	0.298	Power	---		Power-50%		---		P-value	0.298
19C/19	3	6	33.80	16.39	5	10.21	5.83	0.6	+	0.243	6	3.51	3.43	5	3.26	3.26	1.0	+	0.961	6	3.51	3.43	5	3.26	3.26	1.0	+	0.961
1642C/833	3	6	9.21	6.64	4	21.23	17.32	0.7	-	0.474	6	99.76	98.52	4	0.00	0.00	1.7	+	0.401	6	99.76	98.52	4	0.00	0.00	1.7	+	0.401
4537C/979	3	5	7.14	4.48	6	6.87	4.91	0.7	-	0.969	5	2.60	1.64	6	1.71	1.26	0.7	-	0.672	5	2.60	1.64	6	1.71	1.26	0.7	+	0.672
Habitat Means			16.72	9.17		12.77	9.35		+			35.29	34.53		1.66	1.51		+			35.29	34.53		1.66	1.51		+	
Fisher's		Power	0.036		Power-50%		0.094		P-value	0.400	Power	0.029		Power-50%		0.111		P-value	0.334	Power	0.025		Power-50%		0.025		P-value	0.334
Stouffer's		Power	0.102		Power-50%		0.186		P-value	0.502	Power	0.125		Power-50%		0.446		P-value	0.221	Power	0.132		Power-50%		0.404		P-value	0.221

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

Table C-3.65. Algal Biomass. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Algal Taxa Richness (a) N	C	SE	N	O	SE	CV	D	P	Total Algae N	C	SE	N	O	SE	CV	D	P	Perennials (P) N	C	SE	N	O	SE	CV	D	P
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	3.33	1.20	3	1.00	0.58	0.4	+	0.155	3	40.69	32.86	3	619.34	610.86	1.3	-	0.678	3	40.68	32.85	3	619.34	610.86	1.3	-	0.678
Habitat Means			3.33	1.20		1.00	0.58		·			40.69	32.86		619.34	610.86		-			40.68	32.85		619.34	610.86		-	
Fisher's		Power ---			Power-50%		--- P-value			---	z Power ---			Power-50%		--- P-value			---	z Power ---			Power-50%		--- P-value			--- z
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	8.33	1.20	3	1.33	0.33	0.2	+	0.005	3	415.64	172.63	3	209.63	27.05	0.4	+	0.304	3	393.14	151.18	3	203.67	30.96	0.4	+	0.287
Habitat Means			8.33	1.20		1.33	0.33		+			415.64	172.63		209.63	27.05		·			393.14	151.18		203.67	30.96		+	
Fisher's		Power ---			Power-50%		--- P-value			---	z Power ---			Power-50%		--- P-value			---	z Power ---			Power-50%		--- P-value			--- z
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	12.67	2.19	2	5.00	3.00	0.3	-	0.123	3	923.17	507.30	2	428.66	99.96	0.7	+	0.508	3	609.80	261.07	2	419.75	108.85	0.5	-	0.622
Habitat Means			12.67	2.19		5.00	3.00		-			923.17	507.31		428.66	99.96		+			609.80	261.07		419.75	108.85		-	
Fisher's		Power ---			Power-50%		--- P-value			---	z Power ---			Power-50%		--- P-value			---	z Power ---			Power-50%		--- P-value			--- z
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---

(a) 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.

Site Pair	MVD	Annuals (A) N	C	SE	N	O	SE	CV	D	P	Ephemerals (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
62762C/50983	1	3	0.02	0.01	3	0.00	0.00	0.7	·	0.199	3	0.01	0.00	3	0.00	0.00	0.7	·	0.184									
Habitat Means			0.02	0.01		0.00	0.00		+			0.01	0.00		0.00	0.00		+										
Fisher's		Power ---			Power-50%		--- P-value			---	z Power ---			Power-50%		--- P-value			---	z Power ---			Power-50%		--- P-value			
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
62762C/50983	2	3	22.50	21.73	3	5.97	5.97	1.1	+	0.504	3	0.77	0.38	3	5.97	5.97	1.3	-	0.437									
Habitat Means			22.50	21.73		5.97	5.97		+			0.77	0.38		5.97	5.97		-										
Fisher's		Power ---			Power-50%		--- P-value			---	z Power ---			Power-50%		--- P-value			---	z Power ---			Power-50%		--- P-value			
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
62762C/50983	3	3	313.37	254.52	2	8.90	8.90	1.4	+	0.423	3	9.80	5.02	2	4.40	4.40	0.7	-	0.511									
Habitat Means			313.37	254.52		8.90	8.90		+			9.80	5.02		4.40	4.40		-										
Fisher's		Power ---			Power-50%		--- P-value			---	z Power ---			Power-50%		--- P-value			---	z Power ---			Power-50%		--- P-value			
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			

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

Table C-3.66. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.01	0.01	3	0.00	0.00	0.7	+	0.184	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.40	0.39	3	0.00	0.00	1.4	+	0.413	3	0.10	0.10	3	0.00	0.00	1.4	+	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.40	0.39		0.00	0.00		+			0.10	0.10		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	10.73	6.34	2	0.01	0.01	1.1	+	0.147	3	3.84	3.20	2	0.00	0.00	1.5	+	0.353	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			10.73	6.34		0.01	0.01		+			3.84	3.20		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.03	0.03	3	0.00	0.00	1.4	+	0.423	3	0.07	0.07	3	0.00	0.00	1.4	+	0.423	3	0.07	0.07	3	0.00	0.00	1.4	+	0.423
Habitat Means			0.03	0.03		0.00	0.00		+			0.07	0.07		0.00	0.00		+			0.07	0.07		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	0.44	0.44	2	0.00	0.00	1.8	+	0.423	3	3.41	3.40	2	0.00	0.00	1.8	+	0.422	3	3.40	3.40	2	0.00	0.00	1.8	+	0.422
Habitat Means			0.44	0.44		0.00	0.00		+			3.41	3.40		0.00	0.00		+			3.40	3.40		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Genera not separated.

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

Table C-3.66. Algal Biomass. Chlorophyta. coX Inlet/Kenai. Sheltered Rocky. September 1989.

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.01	0.01	3	0.00	0.00	0.7	+	0.184	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.30	0.29	3	0.00	0.00	1.4	+	0.410	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.30	0.29		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	0.00	0.00	2	0.00	0.00	1.8	+	0.423	3	6.89	6.89	2	0.01	0.01	1.8	+	0.838	3	6.89	6.89	2	0.00	0.00	1.8	+	0.423
Habitat Means			0.00	0.00		0.00	0.00		+			6.89	6.89		0.01	0.01		+			6.89	6.89		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha melagonium (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.01	0.00	3	0.00	0.00	0.7	+	0.184	3	0.01	0.00	3	0.00	0.00	0.7	+	0.184	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.00		0.00	0.00		+			0.01	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.01	0.00	3	0.00	0.00	0.7	+	0.184	3	0.01	0.00	3	0.00	0.00	0.7	+	0.184	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.00		0.00	0.00		+			0.01	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Chaetomorpha melagonium not included.

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

Table C-3.66. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.01	0.00	3	0.00	0.00	0.7	-	0.184	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.29	0.29	3	0.00	0.00	1.4	+	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.29	0.29		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	0.00	0.00	2	0.01	0.01	1.0	-	0.500	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.01	0.01		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.66. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---																				
14.2C/14.2	1	0	--	--	0	--	--	-		---																				
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000																				
Habitat Means			0.00	0.00		0.00	0.00		o																					
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
14.1C/14.1	2	0	--	--	0	--	--	-		---																				
14.2C/14.2	2	0	--	--	0	--	--	-		---																				
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000																				
Habitat Means			0.00	0.00		0.00	0.00		o																					
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
14.1C/14.1	3	0	--	--	0	--	--	-		---																				
14.2C/14.2	3	0	--	--	0	--	--	-		---																				
62762C/50983	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000																				
Habitat Means			0.00	0.00		0.00	0.00		o																					
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value				Power	---		Power-50%		---	P-value		

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

Table C-3.67. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Total Phaeophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group - Bladed Browns N	C	SE	N	O	SE	CV	D	P	Alaria sp. (A) N	C	SE	N	O	SE	CV	D	P	
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
62762C/50983	1	3	36.67	34.67	3	619.33	610.85	1.3	-	0.767	3	36.67	34.67	3	619.33	610.85	1.3	-	0.767	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			36.67	34.67		619.33	610.85		-			36.67	34.67		619.33	610.85		-			0.00	0.00		0.00	0.00		o		
Fisher's		Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z
Stouffer's		Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---		
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
62762C/50983	2	3	390.75	149.17	3	209.63	27.05	0.4	+	0.298	3	390.27	148.85	3	203.67	30.96	0.4	+	0.287	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			390.75	149.17		209.63	27.05		+			390.27	148.85		203.67	30.96		+			0.00	0.00		0.00	0.00		o		
Fisher's		Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z
Stouffer's		Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---		
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
62762C/50983	3	3	639.12	474.34	2	424.14	104.46	0.8	+	0.751	3	633.13	476.80	2	422.75	105.85	0.8	+	0.757	3	185.60	184.60	2	0.00	0.00	1.8	+	0.421	
Habitat Means			639.12	474.34		424.14	104.46		+			633.13	476.80		422.75	105.85		+			185.60	184.60		0.00	0.00		+		
Fisher's		Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z
Stouffer's		Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---		

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

Site Pair	MVD	Fucus cottonii (P) N	C	SE	N	O	SE	CV	D	P	Fucus gardneri (P) N	C	SE	N	O	SE	CV	D	P	Laminaria sp. (P) N	C	SE	N	O	SE	CV	D	P	
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	36.67	34.67	3	619.33	610.85	1.3	-	0.767	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			36.67	34.67		619.33	610.85		-			0.00	0.00		0.00	0.00		o		
Fisher's		Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z
Stouffer's		Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---		
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	390.27	148.85	3	203.67	30.96	0.4	+	0.287	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			390.27	148.85		203.67	30.96		+			0.00	0.00		0.00	0.00		o		
Fisher's		Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z
Stouffer's		Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---		
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
62762C/50983	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	447.40	296.91	2	419.75	108.85	0.6	+	0.948	3	0.00	0.00	2	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			447.40	296.91		419.75	108.85		+			0.00	0.00		0.00	0.00		o		
Fisher's		Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z	Power ---			Power-50% ---			P-value ---		z
Stouffer's		Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---			Power ---			Power-50% ---			P-value ---		

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

Table C-3.67. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Petalonia fascia (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Analipus japonicus (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0						0			0									0	--	--	-	---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.10	0.10	3	0.00	0.00	1.4	+	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.10	0.10		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
62762C/50983	3	3	0.13	0.13	2	3.00	3.00	1.0	-	0.649	3	0.17	0.17	2	0.00	0.00	1.8	+	0.423	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		3.00	3.00		-			0.17	0.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

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

Site Pair	MVD	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-	---
62762C/50983	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

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

Table C-3.67. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989.

Site Pair	MVD	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.10	0.10	3	0.00	0.00	1.4	-	0.423	3	0.38	0.36	3	5.97	5.97	1.3	-	0.615	3	0.00	0.00	3	0.00	0.00	1.4	+	0.423
Habitat Means			0.10	0.10		0.00	0.00		+			0.38	0.36		5.97	5.97		-			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	0.17	0.17	2	0.00	0.00	1.8	+	0.423	3	5.82	4.61	2	1.39	1.39	1.2	-	0.516	3	0.00	0.00	2	0.01	0.01	0.9	-	0.414
Habitat Means			0.17	0.17		0.00	0.00		+			5.82	4.61		1.39	1.39		-			0.00	0.00		0.01	0.01		-	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

(a) Genera not separated.

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

Site Pair	MVD	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.37	0.37	3	5.97	5.97	1.3	-	0.911	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	1.4	+	0.423
Habitat Means			0.37	0.37		5.97	5.97		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	5.81	4.61	2	1.36	1.36	1.2	+	0.514	3	0.00	0.00	2	0.01	0.01	0.9	-	0.414	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			5.81	4.61		1.36	1.36		+			0.00	0.00		0.01	0.01		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

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

Table C-3.67. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Leathesia difformis (A) N	C	SE	Soranthera ulvoidea (A) N	C	SE	Morphological Group - Crustose Browns N	C	SE
14.2C/14.2	1	0	--	--	0	--	--	0	--	--
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00
Habitat Means			0.00	0.00		0.00	0.00		0.00	0.00
14.1C/14.1	2	0	--	--	0	--	--	0	--	--
14.2C/14.2	2	0	--	--	0	--	--	0	--	--
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00
Habitat Means			0.00	0.00		0.00	0.00		0.00	0.00
14.1C/14.1	3	0	--	--	0	--	--	0	--	--
14.2C/14.2	3	0	--	--	0	--	--	0	--	--
62762C/50983	3	3	0.00	0.00	3	0.00	0.00	3	0.00	0.00
Habitat Means			0.00	0.00		0.00	0.00		0.00	0.00

Site Pair	MVD	Leathesia difformis (A) O	SE	CV	D	P	Soranthera ulvoidea (A) O	SE	C'			Morphological Group - Crustose Browns O	SE	CV	D	P
14.2C/14.2	1	0	--	-		---	0	--	-		---	0	--	-		---
62762C/50983	1	3	0.00	-	o	1.000	3	0.00	0.00	-	o 1.000	3	0.00	0.00	-	o 1.000
Habitat Means			0.00		o			0.00	0.00		o		0.00	0.00		o
14.1C/14.1	2	0	--	-		---	0	--	-		---	0	--	-		---
14.2C/14.2	2	0	--	-		---	0	--	-		---	0	--	-		---
62762C/50983	2	3	0.00	-	o	1.000	3	0.00	0.00	1.4	+ 0.423	3	0.00	0.00	-	o 1.000
Habitat Means			0.00		o			0.00	0.00		+		0.00	0.00		o
14.1C/14.1	3	0	--	-		---	0	--	-		---	0	--	-		---
14.2C/14.2	3	0	--	-		---	0	--	-		---	0	--	-		---
62762C/50983	3	3	0.00	-	o	1.000	3	0.00	0.00	-	o 1.000	3	0.00	0.00	-	o 1.000
Habitat Means			0.00		o			0.00	0.00		o		0.00	0.00		o

		Power	---	Power-50%	---	P-value	---	z
Fisher's		Power	---	Power-50%	---	P-value	---	z
Stouffer's		Power	---	Power-50%	---	P-value	---	z
Fisher's		Power	---	Power-50%	---	P-value	---	z
Stouffer's		Power	---	Power-50%	---	P-value	---	z
Fisher's		Power	---	Power-50%	---	P-value	---	z
Stouffer's		Power	---	Power-50%	---	P-value	---	z

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

Site Pair	MVD	Ralfsia fungiformis (P) N	C	SE	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-	---
14.2C/14.2	1	0	--	--	0	--	--	-	---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00		o
14.1C/14.1	2	0	--	--	0	--	--	-	---
14.2C/14.2	2	0	--	--	0	--	--	-	---
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00		o
14.1C/14.1	3	0	--	--	0	--	--	-	---
14.2C/14.2	3	0	--	--	0	--	--	-	---
62762C/50983	3	3	0.00	0.00	2	0.00	0.00	-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00		o

		Power	---	Power-50%	---	P-value	---	z
Fisher's		Power	---	Power-50%	---	P-value	---	z
Stouffer's		Power	---	Power-50%	---	P-value	---	z
Fisher's		Power	---	Power-50%	---	P-value	---	z
Stouffer's		Power	---	Power-50%	---	P-value	---	z
Fisher's		Power	---	Power-50%	---	P-value	---	z
Stouffer's		Power	---	Power-50%	---	P-value	---	z

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

Table C-3.68. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta									Morphological Group - Bladed Reds									Gigartinaceae Group (P) (a)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
62762C/50983	1	3	4.01	4.00	3	0.00	0.00	1.4	+	0.329	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423		3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	
Habitat Means			4.01	4.00		0.00	0.00		+			0.00	0.00		0.00	0.00		-				0.00	0.00		0.00	0.00		-		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z		Power	---		Power-50%	---	P-value	---		z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---			
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
62762C/50983	2	3	24.49	23.92	3	0.00	0.00	1.4	+	0.414	3	1.40	1.30	3	0.00	0.00	1.3	+	0.393		3	0.33	0.24	3	0.00	0.00	1.0	+	0.300	
Habitat Means			24.49	23.92		0.00	0.00		+			1.40	1.30		0.00	0.00		+				0.33	0.24		0.00	0.00		+		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z		Power	---		Power-50%	---	P-value	---		z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---			
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
62762C/50983	3	3	273.32	45.41	2	4.51	4.50	0.3	+	0.020	3	44.60	22.57	2	2.01	2.00	0.9	+	0.241		3	0.50	0.49	2	0.00	0.00	1.8	+	0.419	
Habitat Means			273.32	45.41		4.51	4.50		+			44.60	22.57		2.01	2.00		+				0.50	0.49		0.00	0.00		+		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z		Power	---		Power-50%	---	P-value	---		z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---			

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

		Total Palmaria (A)									Palmaria spp. (A)									Palmaria callophylloides (A)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z		Power	---		Power-50%	---	P-value	---		z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---			
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z		Power	---		Power-50%	---	P-value	---		z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---			
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
62762C/50983	3	3	43.95	22.35	2	0.00	0.00	0.9	-	0.188	3	16.67	16.67	2	0.00	0.00	1.8	+	0.423		3	1.07	1.07	2	0.00	0.00	1.8	-	0.423	
Habitat Means			43.95	22.35		0.00	0.00		+			16.67	16.67		0.00	0.00		+				1.07	1.07		0.00	0.00		-		
Fisher's		Power	---		Power-50%	---	P-value	---		z	Power	---		Power-50%	---	P-value	---		z		Power	---		Power-50%	---	P-value	---		z	
Stouffer's		Power	---		Power-50%	---	P-value	---			Power	---		Power-50%	---	P-value	---				Power	---		Power-50%	---	P-value	---			

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

Table C-3.68. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50% ---		P-value ---			z	Power ---			Power-50% ---		P-value ---			z	Power ---			Power-50% ---		P-value ---			z
Stouffer's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50% ---		P-value ---			z	Power ---			Power-50% ---		P-value ---			z	Power ---			Power-50% ---		P-value ---			z
Stouffer's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	6.61	6.61	2	0.00	0.00	1.8	+	0.423	3	19.60	10.47	2	0.00	0.00	1.0	+	0.202	3	0.00	0.00	2	2.01	2.00	1.0	-	0.498
Habitat Means			6.61	6.61		0.00	0.00		+			19.60	10.47		0.00	0.00		+			0.00	0.00		2.01	2.00		-	
Fisher's		Power ---			Power-50% ---		P-value ---			z	Power ---			Power-50% ---		P-value ---			z	Power ---			Power-50% ---		P-value ---			z
[illegible]		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			

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

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	4.01	4.00	3	0.00	0.00	1.4	+	0.422
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			4.01	4.00		0.00	0.00		+	
Fisher's		Power ---			Power-50% ---		P-value ---			z	Power ---			Power-50% ---		P-value ---			z	Power ---			Power-50% ---		P-value ---			z
Stouffer's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	1.07	1.07	3	0.00	0.00	1.4	+	0.421	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	2.54	2.10	3	0.00	0.00	1.2	+	0.350
Habitat Means			1.07	1.07		0.00	0.00		+			0.00	0.00		0.00	0.00		o			2.54	2.10		0.00	0.00		+	
Fisher's		Power ---			Power-50% ---		P-value ---			z	Power ---			Power-50% ---		P-value ---			z	Power ---			Power-50% ---		P-value ---			z
Stouffer's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	0.15	0.15	2	0.00	0.00	1.7	-	0.410	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	99.63	51.62	2	0.00	0.00	0.9	+	0.193
Habitat Means			0.15	0.15		0.00	0.00		·			0.00	0.00		0.00	0.00		o			99.63	51.62		0.00	0.00		+	
Fisher's		Power ---			Power-50% ---		P-value ---			z	Power ---			Power-50% ---		P-value ---			z	Power ---			Power-50% ---		P-value ---			z
Stouffer's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			

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

Table C-3.68. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Dumontia contorta (AE) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	4.00	4.00	3	0.00	0.00	1.4	·	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			4.00	4.00		0.00	0.00		·	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	1.4	·	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	14.95	14.95	2	0.00	0.00	1.8	+	0.423	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			14.95	14.95		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	

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

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Microcladia borealis (A) N	C	SE	N	O	SE	CV	D	P	Nemalion helminthoides (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	

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

68. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	1.4	+	0.423	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	2.24	2.24	3	0.00	0.00	1.4	+	0.423	3	2.24	2.24	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			2.24	2.24		0.00	0.00		+			2.24	2.24		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	76.15	52.70	2	0.00	0.00	1.2	+	0.285	3	76.15	52.70	2	0.00	0.00	1.2	+	0.285	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			76.15	52.70		0.00	0.00		+			76.15	52.70		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

(b) Neorhodomela larix not included.

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

Site Pair	MVD	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	1.4	+	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.30	0.30	3	0.00	0.00	1.4	-	0.423	3	18.44	18.43	3	0.00	0.00	1.4	+	0.422
Habitat Means			0.00	0.00		0.00	0.00		o			0.30	0.30		0.00	0.00		-			18.44	18.43		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	3.45	3.45	2	0.00	0.00	1.8	+	0.422	3	5.08	5.08	2	0.00	0.00	1.8	+	0.423	3	19.18	16.65	2	2.50	2.50	1.4	+	0.496
Habitat Means			3.45	3.45		0.00	0.00		+			5.08	5.08		0.00	0.00		+			19.18	16.65		2.50	2.50		+	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

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

Table C-3.68. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Antithamnion/Antithamnionella (A) (b) N	C	SE	N	O	SE	CV	D	P	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z				
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---					
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z				
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---					
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z				
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---					

(b) Genera not separated.

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

Site Pair	MVD	Ceramium sp. (A) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Scagelia/Hollenbergia (P) (b) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	1.4	+	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z				
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---					
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	18.44	18.43	3	0.00	0.00	1.4	+	0.422	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			18.44	18.43		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z				
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---					
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	19.18	16.65	2	2.50	2.50	1.4	+	0.496	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			19.18	16.65		2.50	2.50		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z	Power	---		Power-50%	---	P-value	---	z				
Stouffer's		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---					

(a) Genera not separated.
(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-3.68. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. September 1989.

Site Pair	MVD	Morphological Group - Saccate Reds N	C	SE	Total Halosaccion (A) N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	2.10	2.10	3	0.00	0.00	1.4	+	0.423	3	2.10	2.10	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			2.10	2.10		0.00	0.00		+			2.10	2.10		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	32.69	32.68	2	0.00	0.00	1.8	+	0.423	3	32.69	32.68	2	0.00	0.00	1.8	+	0.423	3	0.00	0.00	2	0.00	0.00	-	o	1.000
Habitat Means			32.69	32.68		0.00	0.00		+			32.69	32.68		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

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

Site Pair	MVD	Halosaccion glandiforme (A) N	C	SE	Morphological Group - Calcified Reds N	O	SE	CV	D	P	Articulate Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	2.10	2.10	3	0.00	0.00	1.4	+	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			2.10	2.10		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	32.69	32.68	2	0.00	0.00	1.8	+	0.423	3	77.22	77.22	2	0.00	0.00	1.8	+	0.423	3	77.22	77.22	2	0.00	0.00	1.8	+	0.423
Habitat Means			32.69	32.68		0.00	0.00		+			77.22	77.22		0.00	0.00		-			77.22	77.22		0.00	0.00		-	
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

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

Table C-3.69. Algal Biomass. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Algal Taxa Richness (a) N	C	SE	N	O	SE	CV	D	P	Total Algae N	C	SE	N	O	SE	CV	D	P	Perennials (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	2.50	0.34	6	5.00	1.24	0.2	-	0.080	6	2877.44	1214.64	6	1109.32	511.38	0.4	+	0.180	6	2874.22	1116.26	6	1047.06	519.86	0.4	+	0.169
14.2C/14.2	1	6	4.00	1.10	5	2.40	1.17	0.4	+	0.345	6	2613.28	1767.06	5	5.42	2.45	1.1	-	0.012	6	2560.36	1770.41	5	0.17	0.17	1.1	+	0.082
62762C/50983	1	6	5.67	1.05	6	3.83	1.60	0.3	+	0.361	6	873.04	433.84	6	1733.95	693.71	0.4	-	0.318	6	818.61	404.89	6	1731.05	693.10	0.4	-	0.282
Habitat Means			4.06	0.83		3.74	1.33		+			2121.25	1105.18		949.56	402.52		-			2084.39	1097.19		926.09	404.38		+	
Fisher's		Power	0.222		Power-50%		0.992	P-value		0.319x	Power	---		Power-50%	---	P-value			0.017	Power	---		Power-50%	---	P-value			0.070
Stouffer's		Power	0.034		Power-50%		0.986	P-value		0.272	Power	0.062		Power-50%	0.367	P-value			0.426	Power	0.066		Power-50%	0.376	P-value			0.538
14.1C/14.1	2	6	13.50	0.99	6	13.00	1.75	0.1	+	0.809	6	1862.09	325.87	6	1854.83	753.11	0.3	+	0.993	6	1699.26	381.32	6	1637.66	716.03	0.3	+	0.941
14.2C/14.2	2	6	7.50	1.52	4	5.75	1.93	0.3	+	0.494	6	5148.49	2205.73	4	1057.26	488.61	0.6	-	0.180	6	4787.81	2324.20	4	1017.91	478.14	0.7	+	0.234
62762C/50983	2	6	10.67	2.35	6	4.50	1.12	0.2	-	0.039	6	4804.28	1401.06	6	4070.97	1727.91	0.4	-	0.749	6	3840.97	1375.06	6	3918.71	1741.83	0.4	-	0.973
Habitat Means			10.56	1.62		7.75	1.60		+			3938.28	1310.89		2327.69	989.88		+			3442.68	1360.19		2191.43	978.67		-	
Fisher's		Power	---		Power-50%		---	P-value		0.052	Power	0.315		Power-50%	0.521	P-value			0.225	Power	0.174		Power-50%	0.174	P-value			0.309
Stouffer's		Power	---		Power-50%		0.988	P-value		0.016	Power	0.360		Power-50%	0.505	P-value			0.249	Power	0.254		Power-50%	0.288	P-value			0.371
14.1C/14.1	3	6	14.17	1.74	6	16.50	2.32	0.1	-	0.440	6	1715.88	554.24	6	4817.33	1583.66	0.4	-	0.094	6	1468.83	532.66	6	4513.07	1490.44	0.4	-	0.083
14.2C/14.2	3	2	11.00	5.00	5	17.40	4.31	0.3	-	0.443	2	2922.31	764.89	5	3421.99	1009.65	0.3	-	0.785	2	2289.30	1125.60	5	2959.67	904.72	0.4	-	0.697
62762C/50983	3	6	16.00	1.61	4	9.25	3.28	0.2	+	0.074	6	3156.07	972.88	4	4377.97	2014.99	0.4	-	0.559	6	1001.74	376.43	4	3535.21	1443.46	0.4	-	0.074
Habitat Means			13.72	2.78		14.38	3.30		-			2598.08	764.00		4205.76	1536.10		-			1586.62	678.23		3669.31	1279.54		-	
Fisher's		Power	0.033		Power-50%		0.951	P-value		0.410x	Power	0.127		Power-50%	0.279	P-value			0.104	Power	---		Power-50%	---	P-value			0.020
Stouffer's		Power	0.003		Power-50%		0.965	P-value		0.885	Power	0.180		Power-50%	0.292	P-value			0.138	Power	---		Power-50%	---	P-value			0.013

(a) 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.

Site Pair	MVD	Annuals (A) N	C	SE	N	O	SE	CV	D	P	Ephemerals (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	3.22	3.18	6	62.26	34.51	0.7	-	0.121	6	0.00	0.00	6	0.07	0.07	1.4	-	0.363									
14.2C/14.2	1	6	52.93	22.42	5	5.25	2.33	0.6	+	0.124	6	1.39	0.88	5	0.00	0.00	1.0	+	0.207									
62762C/50983	1	6	54.44	36.89	6	2.90	1.99	0.9	+	0.267	6	2.43	2.42	6	0.71	0.36	1.2	+	0.682									
Habitat Means			36.86	20.83		23.47	12.94		-			1.27	1.10		0.26	0.14		+										
Fisher's		Power	0.009		Power-50%		0.075	P-value		0.137	Power	0.001		Power-50%	0.004	P-value			0.313	Power	---		Power-50%	---	P-value			
Stouffer's		Power	0.004		Power-50%		0.151	P-value		0.156	Power	0.000		Power-50%	0.002	P-value			0.317	Power	---		Power-50%	---	P-value			
14.1C/14.1	2	6	162.83	100.90	6	217.17	119.54	0.6	-	0.736	6	1.12	0.80	6	55.38	48.53	1.2	-	0.668									
14.2C/14.2	2	6	360.68	157.12	4	39.35	32.37	0.7	-	0.143	6	0.24	0.17	4	3.36	1.34	0.4	-	0.260									
62762C/50983	2	6	963.31	704.59	6	152.26	102.60	0.9	-	0.058	6	114.27	50.54	6	129.16	83.70	0.6	-	0.882									
Habitat Means			495.61	320.87		136.26	84.84		+			38.55	17.17		62.63	44.52		-										
Fisher's		Power	---		Power-50%		---	P-value		0.039	Power	0.111		Power-50%	0.087	P-value			0.245	Power	---		Power-50%	---	P-value			
Stouffer's		Power	---		Power-50%		0.128	P-value		0.020	Power	0.086		Power-50%	0.192	P-value			0.281	Power	---		Power-50%	---	P-value			
14.1C/14.1	3	6	247.05	127.59	6	304.26	113.25	0.4	-	0.744	6	20.50	7.34	6	43.55	17.35	0.4	-	0.249									
14.2C/14.2	3	2	633.01	360.71	5	462.32	252.39	0.5	+	0.728	2	0.25	0.25	5	54.20	34.16	1.3	-	0.301									
62762C/50983	3	6	2154.32	992.40	4	842.76	612.78	0.6	+	0.354	6	62.78	11.34	4	217.32	143.14	0.6	-	0.335									
Habitat Means			1011.46	493.57		536.45	326.14		-			27.84	6.31		105.02	64.89		-										
Fisher's		Power	0.187		Power-50%		0.339	P-value		0.378	Power	---		Power-50%	---	P-value			0.074	Power	---		Power-50%	---	P-value			
Stouffer's		Power	0.107		Power-50%		0.375	P-value		0.196	Power	---		Power-50%	---	P-value			0.066	Power	---		Power-50%	---	P-value			

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

Table C-3.70. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta							Morphological Group - Bladed Greens							Kornmannia leptoderma (AE)						
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	1.0	-	0.220	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	51.78	36.74	6	0.22	0.22	1.0	-	0.090	6	0.00	0.00	6	0.00	0.00	0.8	-	0.549	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			17.26	12.25		0.07	0.07		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.001		Power-50%		0.000	P-value		0.249xy	Power	0.061		Power-50%		---	P-value		0.292	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.004		Power-50%		0.000	P-value		0.829	Power	0.046		Power-50%		---	P-value		0.211	Power	---		Power-50%		---	P-value		0.203
14.1C/14.1	2	6	5.31	3.72	6	67.22	41.77	0.8	-	0.483	6	0.07	0.07	6	40.27	37.55	1.3	-	0.058	6	0.00	0.00	6	0.10	0.10	1.3	-	0.711
14.2C/14.2	2	6	1.85	1.57	4	1.58	1.57	0.9	-	0.910	6	0.07	0.07	4	0.01	0.01	1.4	+	0.833	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	17.30	10.33	6	0.86	0.85	0.8	-	0.043	6	9.56	4.99	6	0.86	0.85	0.7	+	0.198	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			8.16	5.21		23.22	14.73		-			3.23	1.71		13.71	12.80		+			0.00	0.00		0.03	0.03		-	
Fisher's		Power	0.026		Power-50%		0.071	P-value		0.133 y	Power	0.008		Power-50%		0.170	P-value		0.376xy	Power	0.004		Power-50%		0.004	P-value		0.333
Stouffer's		Power	---		Power-50%		0.134	P-value		0.046	Power	0.003		Power-50%		0.264	P-value		0.243	Power	0.008		Power-50%		0.007	P-value		0.174
14.1C/14.1	3	6	15.67	7.24	6	53.83	15.26	0.3	-	0.048	6	12.37	5.35	6	43.12	17.54	0.5	-	0.125	6	0.50	0.50	6	0.00	0.00	1.4	-	0.362
14.2C/14.2	3	2	0.26	0.26	5	55.20	29.28	1.1	-	0.279	2	0.25	0.25	5	44.22	25.10	1.2	-	0.555	2	0.00	0.00	5	0.00	0.00	2.1	-	0.374
62762C/50983	3	6	87.73	33.72	4	139.84	118.05	0.6	-	0.625	6	52.15	13.51	4	133.21	115.48	0.7	-	0.286	6	0.02	0.02	4	0.00	0.00	1.4	-	0.683
Habitat Means			34.55	13.74		82.96	54.20		-			21.59	6.37		73.52	52.71		-			0.17	0.17		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.033	Power	---		Power-50%		---	P-value		0.062	Power	0.001		Power-50%		0.001	P-value		0.425
Stouffer's		Power	---		Power-50%		0.129	P-value		0.093	Power	---		Power-50%		---	P-value		0.057	Power	0.001		Power-50%		0.001	P-value		0.352

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

		Monostroma/Ulvaria (AE) (b)							Total Ulva (AE)							Ulva spp. (AE)						
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
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		0.403	Power	---		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.227
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.139	Power	---		Power-50%		---	P-value		0.139
14.1C/14.1	2	6	0.07	0.07	6	0.01	0.01	1.3	+	0.840	6	0.00	0.00	6	40.16	37.45	1.3	-	0.026	6	0.00	0.00	6	38.59	37.74	1.4	-	0.103
14.2C/14.2	2	6	0.07	0.07	4	0.00	0.00	1.6	+	0.635	6	0.00	0.00	4	0.01	0.01	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.46	0.40	6	0.85	0.85	1.0	-	0.685	6	9.10	5.09	6	0.00	0.00	0.8	+	0.134	6	8.88	5.13	6	0.00	0.00	0.8	+	0.144
Habitat Means			0.20	0.18		0.29	0.29		+			3.03	1.70		13.39	12.49		-			2.96	1.71		12.86	12.58		-	
Fisher's		Power	0.024		Power-50%		0.084	P-value		0.561 y	Power	---		Power-50%		---	P-value		0.060	Power	0.002		Power-50%		0.002	P-value		0.279
Stouffer's		Power	0.107		Power-50%		0.261	P-value		0.571	Power	0.003		Power-50%		0.035	P-value		0.688	Power	0.000		Power-50%		0.027	P-value		0.808
14.1C/14.1	3	6	9.82	5.50	6	30.79	14.60	0.5	-	0.209	6	2.05	2.01	6	12.34	4.73	0.5	-	0.073	6	0.04	0.03	6	12.34	4.73	0.5	-	0.064
14.2C/14.2	3	2	0.25	0.25	5	4.20	2.58	1.2	-	0.402	2	0.00	0.00	5	40.02	23.20	1.2	-	0.160	2	0.00	0.00	5	7.48	4.85	1.4	-	0.198
62762C/50983	3	6	15.87	12.97	4	106.23	93.49	0.9	-	0.871	6	36.27	7.73	4	26.98	22.03	0.4	-	0.653	6	20.08	7.19	4	26.98	22.03	0.6	-	0.734
Habitat Means			8.64	6.24		47.07	36.89		-			12.77	3.25		26.44	16.65		-			6.71	2.41		15.60	10.53		-	
Fisher's		Power	0.053		Power-50%		0.110	P-value		0.153	Power	---		Power-50%		---	P-value		0.052	Power	---		Power-50%		---	P-value		0.036
Stouffer's		Power	0.127		Power-50%		0.163	P-value		0.228	Power	0.244		Power-50%		0.012	P-value		0.308	Power	0.433		Power-50%		0.006	P-value		0.114

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

Table C-3.70. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	-	0.220	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	49.36	37.31	6	0.00	0.00	1.1	+	0.243	6	49.35	37.31	6	0.00	0.00	1.1	+	0.243
Habitat Means			0.00	0.00		0.00	0.00		o			16.45	12.44		0.00	0.00		-			16.45	12.44		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.001	P-value		0.417 y	Power	0.002		Power-50%		0.002	P-value		0.322
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.001	P-value		0.764	Power	0.000		Power-50%		0.001	P-value		0.143
14.1C/14.1	2	6	0.00	0.00	6	1.57	1.57	1.4	-	0.363	6	5.24	3.65	6	26.95	25.89	1.1	-	0.954	6	0.00	0.00	6	23.93	23.91	1.4	-	0.363
14.2C/14.2	2	6	0.00	0.00	4	0.01	0.01	1.1	-	0.391	6	1.78	1.50	4	1.57	1.57	0.9	+	0.925	6	1.78	1.50	4	0.00	0.00	1.5	+	0.289
62762C/50983	2	6	0.22	0.22	6	0.00	0.00	1.4	-	0.363	6	7.75	6.35	6	0.00	0.00	1.2	-	0.277	6	0.01	0.01	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.07	0.07		0.53	0.53		-			4.92	3.84		9.51	9.15		+			0.60	0.50		7.98	7.97		+	
Fisher's		Power	---		Power-50%		---	P-value		0.314	Power	0.054		Power-50%		0.100	P-value		0.340 y	Power	0.000		Power-50%		0.000	P-value		0.262 y
Stouffer's		Power	---		Power-50%		---	P-value		0.628	Power	0.177		Power-50%		0.198	P-value		0.157	Power	0.000		Power-50%		0.130	P-value		0.191
14.1C/14.1	3	6	2.02	2.02	6	0.00	0.00	1.4	+	0.363	6	3.30	2.09	6	10.71	9.77	1.0	-	0.784	6	0.01	0.01	6	10.56	9.68	1.3	-	0.173
14.2C/14.2	3	2	0.00	0.00	5	32.54	21.10	1.4	-	0.198	2	0.01	0.01	5	10.89	4.24	0.8	-	0.149	2	0.01	0.01	5	10.70	4.08	0.8	-	0.149
62762C/50983	3	6	16.18	11.75	4	0.00	0.00	1.3	-	0.227	6	35.58	21.98	4	6.63	3.83	0.9	+	0.078	6	35.48	22.01	4	6.63	3.83	0.9	-	0.079
Habitat Means			6.07	4.59		10.85	7.03		-			12.96	8.02		9.41	5.94		-			11.83	7.34		9.30	5.86		-	
Fisher's		Power	0.010		Power-50%		0.034	P-value		0.240 y	Power	0.044		Power-50%		0.152	P-value		0.307 xy	Power	0.069		Power-50%		0.069	P-value		0.118 xy
Stouffer's		Power	0.001		Power-50%		0.017	P-value		0.159	Power	0.088		Power-50%		0.206	P-value		0.869	Power	0.151		Power-50%		0.289	P-value		0.790

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha melagonium (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	1.0	-	0.220	6	0.00	0.00	6	0.00	0.00	1.0	-	0.220	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.01	0.00	6	0.00	0.00	0.6	+	0.076	6	0.01	0.00	6	0.00	0.00	0.6	+	0.076	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.038		Power-50%		0.092	P-value		0.226	Power	0.038		Power-50%		0.094	P-value		0.226	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.002		Power-50%		0.103	P-value		0.101	Power	0.001		Power-50%		0.107	P-value		0.101	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	5.24	3.65	6	0.88	0.87	0.9	-	0.197	6	5.24	3.65	6	0.88	0.87	0.9	+	0.197	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	1.26	1.25	6	0.00	0.00	1.4	-	0.360	6	1.26	1.25	6	0.00	0.00	1.4	+	0.360	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.17	1.63		0.29	0.29		+			2.17	1.63		0.29	0.29		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.027		Power-50%		0.007	P-value		0.149	Power	0.029		Power-50%		0.004	P-value		0.149	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.052		Power-50%		0.001	P-value		0.114	Power	0.055		Power-50%		0.001	P-value		0.114	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.05	0.04	6	0.05	0.05	0.9	+	0.950	6	0.05	0.04	6	0.05	0.05	0.9	+	0.950	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.19	0.19	2.1	-	0.368	2	0.00	0.00	5	0.19	0.19	2.1	-	0.368	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.02	0.01		0.08	0.08		-			0.02	0.01		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.004	P-value		0.417	Power	0.001		Power-50%		0.002	P-value		0.417	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		0.000	P-value		0.406	Power	0.003		Power-50%		0.000	P-value		0.406	Power	---		Power-50%		---	P-value		0.500

(b) Chaetomorpha melagonium not included.

Table C-3.70. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.42	2.42	6	0.22	0.22	1.3	+	0.653
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.81	0.81		0.07	0.07		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.000	P-value		0.543
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.341
14.1C/14.1	2	6	0.00	0.00	6	2.14	2.13	1.4	-	0.332	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	1.57	1.57	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
62762C/50983	2	6	6.48	6.47	6	0.00	0.00	1.4	+	0.362	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.16	2.16		1.24	1.23		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.298 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.623	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.403
14.1C/14.1	3	6	3.25	2.10	6	0.10	0.10	0.9	+	0.420	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.08	0.08	2.1	-	0.361
62762C/50983	3	6	0.09	0.09	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
Habitat Means			1.11	0.73		0.03	0.03		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.03	0.03		-	
Fisher's		Power	0.142		Power-50%		0.088	P-value		0.244	Power	---		Power-50%		---	P-value		0.655	Power	0.001		Power-50%		0.001	P-value		0.233
Stouffer's		Power	0.151		Power-50%		0.008	P-value		0.144	Power	---		Power-50%		---	P-value		0.500	Power	0.003		Power-50%		---	P-value		0.148

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

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	2.42	2.42	6	0.22	0.22	1.3	+	0.653	6	0.30	0.30	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.22	0.22	1.4	-	0.655
Habitat Means			0.81	0.81		0.07	0.07		+			0.10	0.10		0.00	0.00		+			0.00	0.00		0.07	0.07		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.543	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.543
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.341	Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.341
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.08	0.08	2.1	-	0.361	2	0.00	0.00	5	0.00	0.00	2.1	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		---	P-value		0.233	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.003		Power-50%		---	P-value		0.148	Power	---		Power-50%		---	P-value		0.400	Power	---		Power-50%		---	P-value		0.500

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.70. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

		Enteromorpha intestinalis (AE)																							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000																	
62762C/50983	1	6	2.12	2.12	6	0.00	0.00	1.4	+	0.363																	
Habitat Means			0.71	0.71		0.00	0.00		+																		
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000																	
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
14.2C/14.2	3	2	0.00	0.00	5	0.08	0.08	2.1	-	0.374																	
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	2.1	-	0.391																	
Habitat Means			0.00	0.00		0.03	0.03		-																		
Fisher's		Power	---		Power-50%		---	P-value		0.238	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.150	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.71. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Total Phaeophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group - Bladed Browns N	C	SE	N	O	SE	CV	D	P	Alaria sp. (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	2873.30	1116.49	6	975.32	530.12	0.5	+	0.156	6	2873.30	1116.49	6	975.25	530.11	0.5	+	0.156	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	2536.00	1777.98	5	0.16	0.16	1.1	+	0.117	6	2534.45	1777.14	5	0.16	0.16	1.1	+	0.117	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	793.32	404.95	6	1731.54	693.27	0.4	-	0.270	6	792.82	405.11	6	1731.05	693.10	0.4	-	0.270	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2067.54	1099.81		902.34	407.85		-			2066.86	1099.58		902.15	407.79		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.162		Power-50%		0.168	P-value		0.563	Power	0.164		Power-50%		0.162	P-value		0.563	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	1203.85	397.90	6	1130.76	729.84	0.5	+	0.932	6	1200.97	397.91	6	1116.60	725.21	0.5	+	0.921	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	4492.81	2387.88	4	883.43	532.43	0.8	+	0.265	6	4491.97	2387.93	4	881.65	532.49	0.8	+	0.265	6	13.79	13.78	4	0.00	0.00	1.7	+	0.363
62762C/50983	2	6	4380.00	1335.81	6	4063.77	1729.33	0.4	+	0.888	6	4278.85	1326.34	6	3919.93	1741.38	0.4	+	0.873	6	488.77	488.77	6	0.00	0.00	1.4	+	0.363
Habitat Means			3358.89	1373.87		2025.99	997.20		+			3323.93	1370.73		1972.73	999.69		+			167.52	167.52		0.00	0.00		+	
Fisher's		Power	0.251		Power-50%		0.226	P-value		0.304	Power	0.244		Power-50%		0.275	P-value		0.298	Power	0.000		Power-50%		0.000	P-value		0.223
Stouffer's		Power	0.404		Power-50%		0.285	P-value		0.319	Power	0.390		Power-50%		0.308	P-value		0.311	Power	0.000		Power-50%		0.010	P-value		0.138
14.1C/14.1	3	6	1107.01	453.09	6	2916.40	1331.38	0.5	-	0.227	6	1099.08	453.18	6	2895.43	1322.40	0.5	-	0.228	6	5.83	5.83	6	3.03	3.03	1.0	-	0.679
14.2C/14.2	3	2	323.15	270.25	5	2265.58	1061.68	0.9	-	0.326	2	323.15	270.25	5	2247.98	1059.63	0.9	-	0.329	2	232.20	179.30	5	12.28	12.28	0.5	-	0.050
62762C/50983	3	6	2096.61	900.33	4	3552.72	1450.92	0.4	-	0.391	6	2079.55	906.80	4	3469.90	1413.82	0.4	-	0.408	6	1538.55	953.40	4	0.00	0.00	1.1	-	0.168
Habitat Means			1175.59	541.22		2911.56	1281.32		-			1167.26	543.41		2871.10	1265.28		-			592.19	379.51		5.10	5.10		+	
Fisher's		Power	---		Power-50%		---	P-value		0.081	Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		0.025
Stouffer's		Power	---		Power-50%		0.179	P-value		0.079	Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		0.026

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

Site Pair	MVD	Fucus cottonii (P) N	C	SE	N	O	SE	CV	D	P	Fucus gardneri (P) N	C	SE	N	O	SE	CV	D	P	Laminaria sp. (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2873.30	1116.49	6	975.25	530.11	0.5	+	0.156	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	2534.45	1777.14	5	0.16	0.16	1.1	+	0.117	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	792.82	405.11	6	1731.05	693.10	0.4	-	0.270	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			2066.86	1099.58		902.15	407.79		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.177		Power-50%		0.168	P-value		0.563	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1200.97	397.91	6	1116.60	725.21	0.5	-	0.921	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	4478.18	2391.67	4	881.65	532.49	0.8	-	0.268	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3790.08	1379.24	6	3912.80	1743.87	0.4	-	0.957	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			3156.41	1389.61		1970.35	1000.53		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.233		Power-50%		0.257	P-value		0.333	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.375		Power-50%		0.302	P-value		0.384	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1093.25	453.35	6	2892.12	1323.60	0.5	-	0.228	6	0.00	0.00	6	0.28	0.28	1.4	-	0.363
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	90.95	90.95	5	2235.70	1053.62	1.0	-	0.278	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	541.00	312.39	4	3469.90	1413.82	0.4	-	0.039	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			575.07	285.56		2865.91	1263.68		-			0.00	0.00		0.09	0.09		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.398

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

Table C-3.71. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Petalonia fascia (AE)								Morphological Group - Coarse Filamentous Browns								Analipus japonicus (P)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.17	0.17	5	0.00	0.00	1.5	+	0.753	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.50	0.50	6	0.00	0.00	1.4	+	0.362	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.22	0.22		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.000	P-value		0.449	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.012	P-value		0.253	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.35	1.29	6	0.00	0.00	1.3	+	0.161	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.67	0.67	4	0.00	0.00	1.7	+	0.581	6	0.67	0.67	4	0.00	0.00	1.7	+	0.363
62762C/50983	2	6	0.00	0.00	6	7.13	7.13	1.4	-	0.363	6	2.91	2.33	6	22.67	22.67	1.3	-	0.304	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.38	2.38		-			1.64	1.43		7.56	7.56		+			0.22	0.22		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.057		Power-50%		0.069	P-value		0.250	y Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	0.213		Power-50%		0.203	P-value		0.650	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.04	2.38	6	0.13	0.13	1.1	+	0.116	6	0.20	0.20	6	0.00	0.00	1.4	+	0.363
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	1.76	1.56	1.9	-	0.322	2	0.00	0.00	5	0.10	0.10	2.1	-	0.374
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	6.53	5.41	4	0.00	0.00	1.4	+	0.281	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			3.19	2.60		0.63	0.56		+			0.07	0.07		0.03	0.03		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.015		Power-50%		0.012	P-value		0.126	Power	---		Power-50%		---	P-value		0.517
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.003	P-value		0.125	Power	---		Power-50%		---	P-value		0.498

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

Site Pair	MVD	Total Dictyosiphon (A)								Dictyosiphon foeniculaceus (A)								Dictyosiphon sinicola (A)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.67	0.67	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.67	0.67	1.4	-	0.363
Habitat Means			0.00	0.00		0.22	0.22		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.22	0.22		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.203
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.71. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.07	0.07	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.17	0.17	5	0.00	0.00	1.5	+	0.753	6	1.39	0.88	5	0.00	0.00	1.0	-	0.174	6	1.39	0.88	5	0.00	0.00	1.0	+	0.174
62762C/50983	1	6	0.50	0.50	6	0.00	0.00	1.4	+	0.362	6	0.00	0.00	6	0.49	0.35	1.0	-	0.484	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.22	0.22		0.00	0.00		+			0.46	0.29		0.18	0.14		-			0.46	0.29		0.00	0.00		+	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.449	Power	0.002		Power-50%		0.011	P-value		0.376 y	Power	0.002		Power-50%		0.002	P-value		0.139
Stouffer's		Power	0.000		Power-50%		0.024	P-value		0.253	Power	0.000		Power-50%		0.141	P-value		0.304	Power	0.006		Power-50%		0.022	P-value		0.111
14.1C/14.1	2	6	1.35	1.29	6	0.00	0.00	1.3	+	0.161	6	1.05	0.81	6	12.96	11.39	1.2	-	0.787	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	1.0	-	0.779	6	0.17	0.17	4	1.78	1.08	0.6	-	0.231	6	0.17	0.17	4	0.00	0.00	1.7	+	0.358
62762C/50983	2	6	2.91	2.33	6	22.00	22.00	1.3	-	0.303	6	98.24	51.31	6	121.17	77.71	0.6	-	0.810	6	0.87	0.69	6	0.02	0.02	1.1	+	0.381
Habitat Means			1.42	1.21		7.34	7.34		-			33.15	17.43		45.31	30.06		-			0.35	0.28		0.01	0.01		+	
Fisher's		Power	0.001		Power-50%		0.046	P-value		0.442	Power	0.046		Power-50%		0.111	P-value		0.239	Power	0.013		Power-50%		0.013	P-value		0.228
Stouffer's		Power	0.005		Power-50%		0.095	P-value		0.267	Power	0.090		Power-50%		0.203	P-value		0.262	Power	0.029		Power-50%		0.099	P-value		0.144
14.1C/14.1	3	6	2.84	2.40	6	0.13	0.13	1.1	+	0.121	6	4.89	3.93	6	0.33	0.33	1.1	+	0.634	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	1.66	1.59	2.0	-	0.353	2	0.00	0.00	5	9.89	9.57	2.1	-	0.360	2	0.00	0.00	5	0.14	0.14	2.1	-	0.374
62762C/50983	3	6	6.53	5.41	4	0.00	0.00	1.4	-	0.281	6	10.53	9.10	4	82.82	50.47	0.6	-	0.886	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			3.12	2.60		0.60	0.57		-			5.14	4.34		31.01	20.12		-			0.00	0.00		0.05	0.05		-	
Fisher's		Power	0.013		Power-50%		0.013	P-value		0.128	Power	0.039		Power-50%		0.009	P-value		0.443	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	0.001		Power-50%		0.002	P-value		0.122	Power	0.086		Power-50%		0.004	P-value		0.399	Power	---		Power-50%		---	P-value		0.400

(a) Genera not separated.

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

Site Pair	MVD	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.07	0.07	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.49	0.35	1.0	-	0.225	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.18	0.14		-			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.049		Power-50%		---	P-value		0.164	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.085	Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	1.05	0.81	6	12.96	11.39	1.2	-	0.771	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.48	0.48	6	1.20	0.90	0.9	-	0.500
14.2C/14.2	2	6	0.00	0.00	4	1.78	1.08	0.7	-	0.199	6	0.00	0.00	4	0.01	0.01	0.9	-	0.393	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	97.22	50.87	6	121.15	77.70	0.6	-	0.802	6	0.15	0.14	6	0.00	0.00	1.3	-	0.331	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			32.76	17.23		45.30	30.06		-			0.05	0.05		0.00	0.00		-			0.16	0.16		0.40	0.30		-	
Fisher's		Power	0.008		Power-50%		0.055	P-value		0.214	Power	0.006		Power-50%		0.006	P-value		0.204 y	Power	0.002		Power-50%		0.002	P-value		0.476
Stouffer's		Power	0.037		Power-50%		0.023	P-value		0.249	Power	0.001		Power-50%		0.083	P-value		0.602	Power	0.000		Power-50%		---	P-value		0.424
14.1C/14.1	3	6	4.01	4.01	6	0.33	0.33	1.3	+	0.846	6	0.88	0.88	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.23	0.23	1.4	-	0.978
14.2C/14.2	3	2	0.00	0.00	5	6.97	6.65	2.0	-	0.354	2	0.00	0.00	5	2.79	2.79	2.1	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	10.53	9.10	4	72.10	48.51	0.7	-	0.906	6	0.00	0.00	4	10.71	10.70	1.1	-	0.390	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			4.85	4.37		26.47	18.49		-			0.29	0.29		4.50	4.49		-			0.00	0.00		0.08	0.08		-	
Fisher's		Power	0.053		Power-50%		0.001	P-value		0.407	Power	0.000		Power-50%		---	P-value		0.319	Power	0.009		Power-50%		0.009	P-value		0.649
Stouffer's		Power	0.153		Power-50%		0.001	P-value		0.376	Power	0.000		Power-50%		---	P-value		0.218	Power	0.001		Power-50%		0.007	P-value		0.497

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

Table C-3.71. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.48	0.48	6	1.20	0.90	0.9	-	0.500	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.16	0.16		0.40	0.30		-			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.003		Power-50%		---	P-value		0.476	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.424	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.23	0.23	1.4	-	0.978	6	0.00	0.00	6	20.27	20.27	1.4	-	0.363
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	5.94	5.94	2.1	-	0.374
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-			0.00	0.00		8.74	8.74		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.009		Power-50%		0.019	P-value		0.649	Power	0.000		Power-50%		0.000	P-value		0.227
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.019	P-value		0.497	Power	0.000		Power-50%		---	P-value		0.304

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

Site Pair	MVD	Ralfsia fungiformis (P) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000																		
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	1.7	+	0.363																		
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
14.1C/14.1	3	6	0.00	0.00	6	20.27	20.27	1.4	-	0.363																		
14.2C/14.2	3	2	0.00	0.00	5	5.94	5.94	2.1	-	0.374																		
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		8.74	8.74		-																			
Fisher's		Power	0.000		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		---	P-value		0.304	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.72. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	4.14	3.08	6	134.00	67.86	0.7	-	0.160	6	0.87	0.72	6	18.72	13.06	0.9	-	0.242	6	0.87	0.72	6	18.72	13.06	0.9	-	0.385
14.2C/14.2	1	6	77.28	32.20	5	5.25	2.33	0.6	+	0.114	6	50.55	21.85	5	3.91	1.66	0.6	+	0.259	6	0.00	0.00	5	0.00	0.00	1.0	-	0.579
62762C/50983	1	6	27.95	15.64	6	2.20	1.66	0.7	+	0.039	6	2.01	1.21	6	2.16	1.63	0.7	-	0.943	6	0.10	0.10	6	0.00	0.00	1.3	+	0.430
Habitat Means			36.45	16.98		47.15	23.95		+			17.81	7.92		8.26	5.45		-			0.32	0.27		6.24	4.36		-	
Fisher's		Power	---		Power-50%		---	P-value		0.032 y	Power	0.013		Power-50%		0.075	P-value		0.423 y	Power	0.016		Power-50%		0.016	P-value		0.395
Stouffer's		Power	---		Power-50%		0.220	P-value		0.026	Power	0.026		Power-50%		0.180	P-value		0.469	Power	0.056		Power-50%		0.189	P-value		0.624
14.1C/14.1	2	6	652.93	147.63	6	656.85	202.00	0.3	-	0.988	6	197.69	78.44	6	129.84	50.89	0.4	+	0.485	6	184.20	78.39	6	123.95	51.65	0.4	+	0.536
14.2C/14.2	2	6	653.83	278.68	4	172.25	123.09	0.6	+	0.220	6	491.54	234.07	4	130.24	119.42	0.7	+	0.274	6	147.88	141.69	4	125.43	120.97	1.0	+	0.914
62762C/50983	2	6	406.97	257.52	6	6.34	5.20	0.9	+	0.248	6	162.41	102.23	6	0.09	0.09	0.9	+	0.207	6	31.09	21.64	6	0.09	0.09	1.0	+	0.483
Habitat Means			571.24	227.94		278.48	110.10		+			283.88	138.25		86.72	56.80		+			121.06	80.57		83.16	57.57		-	
Fisher's		Power	0.230		Power-50%		0.119	P-value		0.127	Power	---		Power-50%		---	P-value		0.078	Power	0.069		Power-50%		0.069	P-value		0.317
Stouffer's		Power	---		Power-50%		0.194	P-value		0.080	Power	---		Power-50%		---	P-value		0.048	Power	0.130		Power-50%		0.456	P-value		0.198
14.1C/14.1	3	6	593.19	257.50	6	1847.10	330.87	0.2	-	0.014	6	56.21	26.41	6	457.69	133.48	0.4	-	0.003	6	41.12	21.16	6	330.63	71.73	0.3	-	0.003
14.2C/14.2	3	2	2598.91	1035.40	5	1101.21	428.51	0.3	+	0.158	2	462.40	211.00	5	572.91	242.93	0.5	-	0.804	2	83.65	51.65	5	356.02	233.55	1.1	-	0.518
62762C/50983	3	6	971.72	347.27	4	685.41	495.40	0.5	+	0.638	6	97.89	39.61	4	615.76	450.91	0.7	-	0.466	6	15.55	10.80	4	56.70	33.45	0.6	-	0.203
Habitat Means			1387.94	546.72		1211.24	418.26		+			205.50	92.34		548.79	275.77		-			46.77	27.87		247.78	112.91		-	
Fisher's		Power	0.173		Power-50%		0.293	P-value		0.287x	Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.003
Stouffer's		Power	0.074		Power-50%		0.345	P-value		0.448	Power	---		Power-50%		---	P-value		0.056	Power	---		Power-50%		---	P-value		0.014

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

		Total Palmaria (A)								Palmaria spp. (A)								Palmaria callophylloides (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374
62762C/50983	1	6	0.00	0.00	6	1.40	1.40	1.4	-	0.377	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	1.40	1.40	1.4	-	0.363
Habitat Means			0.00	0.00		0.47	0.47		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.47	0.47		-	
Fisher's		Power	0.008		Power-50%		---	P-value		0.120	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.117
Stouffer's		Power	---		Power-50%		---	P-value		0.093	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.089
14.1C/14.1	2	6	13.10	6.74	6	0.00	0.00	0.7	-	0.109	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	8.60	5.10	6	0.00	0.00	0.8	-	0.153
14.2C/14.2	2	6	87.55	87.55	4	3.68	3.68	1.7	+	0.924	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.90	0.90	1.1	-	0.391
62762C/50983	2	6	130.92	82.52	6	0.00	0.00	0.9	-	0.174	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	122.92	77.51	6	0.00	0.00	0.9	-	0.174
Habitat Means			77.19	58.94		1.23	1.23		-			0.00	0.00		0.00	0.00		-			43.84	27.54		0.30	0.30		-	
Fisher's		Power	---		Power-50%		---	P-value		0.057	Power	---		Power-50%		---	P-value		0.223	Power	0.054		Power-50%		0.054	P-value		0.106
Stouffer's		Power	---		Power-50%		0.161	P-value		0.042	Power	---		Power-50%		---	P-value		0.138	Power	---		Power-50%		---	P-value		0.080
14.1C/14.1	3	6	11.25	7.73	6	70.52	52.80	0.9	-	0.302	6	0.00	0.00	6	0.05	0.05	1.4	-	0.363	6	2.32	2.14	6	0.00	0.00	1.3	-	0.329
14.2C/14.2	3	2	44.10	44.10	5	182.98	182.31	1.7	-	0.669	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	71.34	70.67	2.1	-	0.370
62762C/50983	3	6	73.00	36.50	4	555.30	421.46	0.7	-	0.382	6	0.01	0.01	4	0.18	0.18	1.0	-	0.635	6	3.34	2.12	4	71.40	46.98	0.7	-	0.489
Habitat Means			42.78	29.44		269.60	218.86		-			0.00	0.00		0.08	0.08		-			1.88	1.42		47.58	39.22		-	
Fisher's		Power	0.080		Power-50%		0.168	P-value		0.158	Power	---		Power-50%		---	P-value		0.312	Power	0.041		Power-50%		0.041	P-value		0.364
Stouffer's		Power	0.153		Power-50%		0.291	P-value		0.112	Power	---		Power-50%		---	P-value		0.244	Power	0.014		Power-50%		0.088	P-value		0.271

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

Table C-3.72. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

		Palmaria hecatensis (A)								Palmaria mollis (A)								Phycodrys riggii (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.07	0.07	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.02	0.02		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.203
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	4.50	4.50	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	87.55	87.55	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	2.78	2.78	1.1	-	0.391	6	1.27	1.27	4	0.00	0.00	1.7	+	0.363
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	8.00	8.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			29.18	29.18		0.00	0.00		+			4.17	4.17		0.93	0.93		+			0.42	0.42		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.298	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.302	Power	---		Power-50%		---	P-value		0.199	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	3	6	0.00	0.00	6	10.08	9.85	1.4	-	0.353	6	8.93	7.28	6	60.38	54.13	1.1	-	0.891	6	0.00	0.00	6	19.96	10.85	0.8	-	0.041
14.2C/14.2	3	2	44.10	44.10	5	0.00	0.00	0.7	+	0.500	2	0.00	0.00	5	111.64	111.64	2.1	-	0.374	2	0.00	0.00	5	12.04	12.04	2.1	-	0.374
62762C/50983	3	6	60.62	36.78	4	88.22	88.22	0.8	-	0.750	6	9.03	9.03	4	395.50	395.50	1.1	-	0.662	6	0.02	0.02	4	0.00	0.00	1.7	+	0.363
Habitat Means			34.91	26.96		32.77	32.69		-			5.99	5.44		189.17	187.09		-			0.01	0.01		10.67	7.63		-	
Fisher's		Power	0.003		Power-50%		0.035	P-value		0.422 y	Power	0.103		Power-50%		0.008	P-value		0.304	Power	---		Power-50%		---	P-value		0.073
Stouffer's		Power	0.003		Power-50%		0.063	P-value		0.358	Power	0.268		Power-50%		0.025	P-value		0.244	Power	0.005		Power-50%		---	P-value		0.498

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

		Porphyra sp. (A)								Tokidadendron kurilensis (A)								Morphological Group - Coarse Filamentous Reds							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.27	3.17	6	115.16	57.07	0.7	-	0.100
14.2C/14.2	1	6	50.55	21.85	5	3.91	1.66	0.6	+	0.259	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	26.73	24.93	5	1.32	1.32	1.4	+	0.079
62762C/50983	1	6	1.90	1.23	6	0.68	0.50	0.7	+	0.381	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	25.69	16.23	6	0.01	0.00	0.9	+	0.140
Habitat Means			17.49	7.69		1.53	0.72		+			0.00	0.00		0.00	0.00		o			18.56	14.77		38.83	19.46		+	
Fisher's		Power	0.022		Power-50%		0.017	P-value		0.253	Power	---		Power-50%		---	P-value		0.635	Power	---		Power-50%		---	P-value		0.065xy
Stouffer's		Power	0.018		Power-50%		0.029	P-value		0.194	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.084
14.1C/14.1	2	6	0.39	0.38	6	5.89	4.83	1.1	-	0.429	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	344.14	112.42	6	432.57	184.27	0.4	-	0.691
14.2C/14.2	2	6	254.67	152.72	4	1.13	1.13	1.0	+	0.052	6	0.17	0.17	4	0.00	0.00	1.7	+	0.358	6	162.19	95.12	4	13.68	9.65	0.9	+	0.310
62762C/50983	2	6	0.40	0.40	6	0.00	0.00	1.4	+	0.361	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	19.79	17.28	6	5.82	5.30	1.0	+	0.457
Habitat Means			85.15	51.17		2.34	1.99		+			0.06	0.06		0.00	0.00		+			175.37	74.94		150.69	66.41		+	
Fisher's		Power	---		Power-50%		---	P-value		0.082	Power	0.000		Power-50%		0.000	P-value		0.515	Power	0.036		Power-50%		0.036	P-value		0.275
Stouffer's		Power	0.097		Power-50%		0.225	P-value		0.122	Power	0.000		Power-50%		0.000	P-value		0.499	Power	0.095		Power-50%		0.164	P-value		0.196
14.1C/14.1	3	6	3.84	2.80	6	9.15	8.60	1.0	-	0.570	6	0.00	0.00	6	27.44	13.90	0.7	-	0.105	6	437.98	215.37	6	1081.95	185.61	0.3	-	0.047
14.2C/14.2	3	2	222.75	222.75	5	3.32	1.78	0.7	+	0.937	2	111.90	107.50	5	18.55	10.38	0.6	+	0.360	2	1881.25	1013.25	5	403.91	208.60	0.4	+	0.069
62762C/50983	3	6	6.43	5.73	4	3.75	3.75	1.1	+	0.739	6	2.90	2.15	4	0.00	0.00	1.3	-	0.235	6	485.61	250.56	4	13.88	9.20	0.9	+	0.104
Habitat Means			77.67	77.09		5.41	4.71		+			38.27	36.55		15.33	8.09		+			934.95	493.06		499.91	134.47		+	
Fisher's		Power	0.092		Power-50%		0.078	P-value		0.653	Power	0.118		Power-50%		0.116	P-value		0.252	Power	---		Power-50%		---	P-value		0.048x
Stouffer's		Power	0.140		Power-50%		0.166	P-value		0.435	Power	0.034		Power-50%		0.142	P-value		0.188	Power	---		Power-50%		---	P-value		0.075

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

Table C-3.72. Algal Biomass. Rhodophyta, Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Dumontia contorta (AE) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.05	0.03	6	0.00	0.00	1.0	+	0.203	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.05	0.05	6	31.49	8.34	0.4	-	0.004
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	25.90	25.08	5	0.00	0.00	1.5	+	0.087
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	25.68	16.23	6	0.00	0.00	0.9	-	0.174
Habitat Means			0.02	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o			17.21	13.79		10.50	2.78		+	
Fisher's		Power	0.046		Power-50%		0.052	P-value		0.226	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.084x
Stouffer's		Power	0.015		Power-50%		0.095	P-value		0.732	Power	---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		0.147	P-value		0.181
14.1C/14.1	2	6	17.20	10.61	6	4.25	2.26	0.7	+	0.227	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	34.17	27.02	6	83.55	32.58	0.5	-	0.270
14.2C/14.2	2	6	0.07	0.07	4	0.93	0.93	1.0	-	0.657	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	86.79	78.60	4	10.83	8.85	1.4	+	0.604
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.10	0.10	6	0.45	0.45	1.2	-	0.873
Habitat Means			5.76	3.56		1.73	1.06		+			0.00	0.00		0.00	0.00		o			40.35	35.24		31.61	13.96		-	
Fisher's		Power	0.051		Power-50%		0.061	P-value		0.200	Power	---		Power-50%		---	P-value		0.655	Power	0.043		Power-50%		0.043	P-value		0.382 y
Stouffer's		Power	0.106		Power-50%		0.162	P-value		0.147	Power	---		Power-50%		---	P-value		0.500	Power	0.122		Power-50%		0.128	P-value		0.377
14.1C/14.1	3	6	101.53	85.32	6	9.71	9.37	1.1	+	0.232	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.49	0.38	1.1	-	0.156
14.2C/14.2	3	2	13.85	13.85	5	44.54	13.24	0.5	-	0.246	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	9.70	9.70	5	3.06	3.06	0.7	+	0.402
62762C/50983	3	6	40.44	33.74	4	3.40	2.83	1.3	+	0.258	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.08	0.08	4	8.10	8.10	1.1	-	0.579
Habitat Means			51.94	44.31		19.22	8.48		-			0.00	0.00		0.00	0.00		o			3.26	3.26		3.88	3.85		-	
Fisher's		Power	0.160		Power-50%		0.111	P-value		0.193	Power	---		Power-50%		---	P-value		0.655	Power	0.024		Power-50%		0.024	P-value		0.236
Stouffer's		Power	0.150		Power-50%		0.182	P-value		0.148	Power	---		Power-50%		---	P-value		0.500	Power	0.118		Power-50%		---	P-value		0.251

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

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Microcladia borealis (A) N	C	SE	N	O	SE	CV	D	P	Nemalion helminthoides (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	3.17	3.17	6	62.07	34.58	0.8	-	0.245	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.82	0.82	5	1.32	1.32	1.0	-	0.745	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.33	1.33		21.13	11.97		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.020		Power-50%		0.030	P-value		0.272	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.129		Power-50%		0.210	P-value		0.336	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		*0.500*
14.1C/14.1	2	6	12.85	7.67	6	30.07	22.22	0.8	-	0.481	6	0.00	0.00	6	1.15	1.15	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	1.15	1.02	4	1.93	1.22	0.7	-	0.640	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			4.67	2.90		10.66	7.81		-			0.00	0.00		0.38	0.38		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.095		Power-50%		0.020	P-value		0.201	Power	0.000		Power-50%		---	P-value		0.402	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.188		Power-50%		0.034	P-value		0.122	Power	0.000		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	2.19	1.39	6	2.29	1.80	0.7	-	0.966	6	0.00	0.00	6	45.33	26.21	0.8	-	0.037	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.00	0.00	5	0.56	0.56	2.1	-	0.370	2	2.15	2.15	5	27.68	25.44	1.8	-	0.575	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.38	0.38	4	1.88	1.88	1.0	-	0.366	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			0.86	0.59		1.58	1.41		-			0.72	0.72		24.34	17.22		-			*0.00*	*0.00*		*0.00*	*0.00*		o	
Fisher's		Power	0.041		Power-50%		0.001	P-value		0.222	Power	---		Power-50%		---	P-value		0.065	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.150		Power-50%		0.005	P-value		0.137	Power	0.188		Power-50%		0.257	P-value		0.225	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.72. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	21.60	20.87	1.4	-	0.348	6	0.00	0.00	6	21.60	20.87	1.4	-	0.348	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		7.20	6.96		-			0.00	0.00		7.20	6.96		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.508	Power	0.000		Power-50%		---	P-value		0.508	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		---	P-value		0.714	Power	0.000		Power-50%		---	P-value		0.714	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	111.65	39.91	6	223.63	204.44	0.9	-	0.510	6	111.65	39.91	6	217.77	205.61	0.9	-	0.253	6	0.00	0.00	6	5.87	5.87	1.4	-	0.363
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	1.90	1.90	6	5.37	5.37	1.1	-	0.556	6	1.90	1.90	6	5.37	5.37	1.1	-	0.556	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			37.85	13.94		76.33	69.94		-			37.85	13.94		74.38	70.32		-			0.00	0.00		1.96	1.96		-	
Fisher's		Power	0.001		Power-50%		0.010	P-value		0.352	Power	0.000		Power-50%		0.011	P-value		0.232	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.002		Power-50%		0.016	P-value		0.234	Power	0.000		Power-50%		0.016	P-value		0.194	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	3	6	46.18	34.04	6	5.27	5.27	0.9	+	0.374	6	37.49	34.52	6	4.37	4.37	1.2	+	0.404	6	8.68	8.68	6	0.90	0.90	1.3	+	0.897
14.2C/14.2	3	2	0.00	0.00	5	96.92	86.37	1.9	-	0.325	2	0.00	0.00	5	0.50	0.50	2.1	-	0.374	2	0.00	0.00	5	96.42	86.51	1.9	-	0.328
62762C/50983	3	6	0.32	0.32	4	0.00	0.00	1.7	-	0.363	6	0.32	0.32	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			15.50	11.45		34.06	30.54		+			12.60	11.61		1.62	1.62		+			2.89	2.89		32.44	29.14			
Fisher's		Power	0.002		Power-50%		0.015	P-value		0.310 y	Power	0.002		Power-50%		0.009	P-value		0.319	Power	0.006		Power-50%		0.006	P-value		0.402
Stouffer's		Power	0.000		Power-50%		0.027	P-value		0.211	Power	0.003		Power-50%		0.014	P-value		0.207	Power	0.014		Power-50%		---	P-value		0.404

(b) Neorhodomela larix not included.

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

Site Pair	MVD	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.01	0.00	1.0	-	0.203	6	0.00	0.00	6	0.12	0.12	1.4	-	0.363
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	1.6	-	0.363	6	0.00	0.00	5	0.00	0.00	1.6	-	0.363
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.03	0.03	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		-			0.00	0.00		0.05	0.05		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.007		Power-50%		---	P-value		0.384	Power	---		Power-50%		---	P-value		0.301
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	0.000		Power-50%		---	P-value		0.459	Power	---		Power-50%		---	P-value		0.203
14.1C/14.1	2	6	1.40	1.40	6	0.05	0.05	1.4	+	0.683	6	166.88	134.97	6	89.87	71.35	0.8	-	0.625	6	10.83	4.87	6	35.30	23.31	0.7	-	0.225
14.2C/14.2	2	6	74.18	74.16	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	1.7	-	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.62	0.62	6	0.00	0.00	1.4	+	0.362	6	17.17	16.97	6	0.00	0.00	1.4	-	0.358	6	7.93	6.00	6	0.43	0.43	1.0	-	0.032
Habitat Means			25.40	25.39		0.02	0.02		+			61.35	50.65		29.96	23.78		-			6.25	3.62		11.91	7.91		-	
Fisher's		Power	0.023		Power-50%		0.022	P-value		0.175	Power	0.089		Power-50%		0.071	P-value		0.164	Power	0.007		Power-50%		0.007	P-value		0.128 y
Stouffer's		Power	0.203		Power-50%		0.235	P-value		0.113	Power	0.279		Power-50%		0.246	P-value		0.108	Power	---		Power-50%		---	P-value		0.053
14.1C/14.1	3	6	0.59	0.58	6	594.18	252.98	0.6	-	0.000	6	287.50	217.58	6	424.68	247.78	0.7	-	0.686	6	70.49	26.98	6	44.74	29.97	0.5	+	0.538
14.2C/14.2	3	2	1752.45	1067.05	5	125.33	108.81	0.4	-	0.193	2	103.10	28.10	5	105.81	71.97	0.7	-	0.983	2	5.80	5.80	5	55.01	35.08	1.2	-	0.441
62762C/50983	3	6	53.92	51.57	4	0.50	0.50	1.6	+	0.199	6	390.47	248.84	4	0.00	0.00	1.1	+	0.028	6	177.53	66.98	4	1.54	1.23	0.6	-	0.053
Habitat Means			602.32	373.07		240.00	120.76		-			260.35	164.84		176.83	106.59		-			84.61	33.25		33.76	22.09		+	
Fisher's		Power	0.193		Power-50%		0.168	P-value		0.158x	Power	0.000		Power-50%		0.146	P-value		0.732xy	Power	0.091		Power-50%		0.091	P-value		0.109
Stouffer's		Power	0.064		Power-50%		0.232	P-value		0.313	Power	0.000		Power-50%		0.193	P-value		0.971	Power	---		Power-50%		---	P-value		0.042

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

Table C-3.72. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Antithamnion/Antithamnionella (A) (b) N	C	SE	N	O	SE	CV	D	P	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.50	0.50	6	0.00	0.00	1.4	-	0.363
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.17	0.17		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.223
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.138
14.1C/14.1	3	6	0.00	0.00	6	0.93	0.93	1.4	-	0.606	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.92	0.74	6	0.00	0.00	2.1	+	0.268
14.2C/14.2	3	2	0.00	0.00	5	0.19	0.19	2.1	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.66	0.66	2.1	-	0.374
62762C/50983	3	6	0.51	0.51	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	1.29	1.29	1.1	-	0.391	6	0.15	0.15	4	0.00	0.00	1.7	+	0.352
Habitat Means			0.17	0.17		0.38	0.38		-			0.00	0.00		0.43	0.43		-			0.36	0.29		0.22	0.22		+	
Fisher's		Power	---		Power-50%		---	P-value		0.407	Power	---		Power-50%		---	P-value		0.419	Power	0.019		Power-50%		0.019	P-value		0.245
Stouffer's		Power	---		Power-50%		---	P-value		0.667	Power	---		Power-50%		---	P-value		0.216	Power	0.024		Power-50%		0.017	P-value		0.180

(b) Genera not separated.

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

Site Pair	MVD	Ceramium sp. (A) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Scagelia/Hollenbergia (P) (b) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.12	0.12	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.03	0.03	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.05	0.05		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.301	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.33	4.88	6	35.29	23.31	0.7	-	0.209	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
14.2C/14.2	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	7.93	6.00	6	0.43	0.43	1.0	+	0.036	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			6.09	3.63		11.91	7.91		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.006		Power-50%		0.017	P-value		0.139 y	Power	---		Power-50%		---	P-value		0.519 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.059	Power	---		Power-50%		---	P-value		0.717
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	69.57	26.83	6	38.87	31.10	0.5	+	0.472	6	0.00	0.00	6	4.93	4.55	1.3	-	0.328
14.2C/14.2	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	5.80	5.80	5	54.15	34.46	1.2	-	0.441	2	0.00	0.00	5	0.00	0.00	2.1	-	0.374
62762C/50983	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	176.45	67.19	4	0.25	0.25	0.7	+	0.013	6	0.42	0.30	4	0.00	0.00	1.2	+	0.224
Habitat Means			0.00	0.00		0.00	0.00		-			83.94	33.27		31.09	21.94		+			0.14	0.10		1.65	1.52		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.037	Power	0.001		Power-50%		0.001	P-value		0.302
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.012	Power	0.000		Power-50%		0.001	P-value		0.719

(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-3.72. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.01	0.01	1.3	-	0.374	6	0.00	0.00	5	0.01	0.01	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.25	0.25	6	0.00	0.00	1.4	-	0.973	6	0.25	0.25	6	0.00	0.00	1.4	+	0.973	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.08	0.08		0.01	0.01		-			0.08	0.08		0.01	0.01		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.131		Power-50%		---	P-value		0.231 y	Power	0.135		Power-50%		---	P-value		0.231 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.159		Power-50%		---	P-value		0.315	Power	0.159		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	100.27	88.94	6	59.13	53.07	0.9	+	0.700	6	100.27	88.94	6	59.13	53.07	0.9	+	0.700	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	28.33	28.33	1.1	-	0.391	6	0.00	0.00	4	28.33	28.33	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	216.84	152.12	6	0.00	0.00	1.0	+	0.022	6	216.84	152.12	6	0.00	0.00	1.0	-	0.022	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			105.70	80.35		29.15	27.13		+			105.70	80.35		29.15	27.13		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.073	Power	---		Power-50%		---	P-value		0.073	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		0.043	P-value		0.025	Power	---		Power-50%		---	P-value		0.025	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	28.52	10.13	6	22.51	10.91	0.4	+	0.695	6	28.52	10.13	6	22.51	10.91	0.4	+	0.695	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.01	0.01	5	38.60	17.65	1.0	-	0.143	2	0.01	0.01	5	38.60	17.65	1.0	-	0.143	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	210.69	96.18	4	54.23	45.97	0.7	+	0.248	6	210.69	96.18	4	54.23	45.97	0.7	+	0.248	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			79.74	35.44		38.44	24.84		+			79.74	35.44		38.44	24.84		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.004		Power-50%		0.127	P-value		0.376	Power	0.004		Power-50%		0.114	P-value		0.376	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		0.186	P-value		0.226	Power	0.001		Power-50%		0.183	P-value		0.226	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Calcified Reds N	C	SE	N	O	SE	CV	D	P	Articulate Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	5	0.01	0.01	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.25	0.25	6	0.00	0.00	1.4	+	0.973	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.08	0.08		0.01	0.01		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.130		Power-50%		---	P-value		0.231 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.158		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	100.27	88.94	6	59.13	53.07	0.9	-	0.700	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	4	28.33	28.33	1.1	-	0.391	6	0.10	0.10	4	0.00	0.00	1.7	+	0.363	6	0.10	0.10	4	0.00	0.00	1.7	+	0.363
62762C/50983	2	6	216.84	152.12	6	0.00	0.00	1.0	+	0.022	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			105.70	80.35		29.15	27.13		+			0.03	0.03		0.00	0.00		+			0.03	0.03		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.073	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		0.057	P-value		0.025	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	3	6	28.52	10.13	6	22.51	10.91	0.4	+	0.695	6	0.00	0.00	6	240.22	151.68	0.9	-	0.174	6	0.00	0.00	6	240.22	151.68	0.9	-	0.174
14.2C/14.2	3	2	0.01	0.01	5	38.60	17.65	1.0	-	0.143	2	249.45	238.95	5	30.79	26.67	0.6	+	0.194	2	249.45	238.95	5	30.79	26.67	0.6	-	0.194
62762C/50983	3	6	210.69	96.18	4	54.23	45.97	0.7	+	0.248	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			79.74	35.44		38.44	24.84		+			83.15	79.65		90.33	59.45		-			83.15	79.65		90.33	59.45		-	
Fisher's		Power	0.003		Power-50%		0.100	P-value		0.376	Power	0.002		Power-50%		0.085	P-value		0.372	Power	0.002		Power-50%		0.002	P-value		0.372
Stouffer's		Power	0.000		Power-50%		0.171	P-value		0.226	Power	0.001		Power-50%		0.053	P-value		0.493	Power	0.002		Power-50%		0.050	P-value		0.493

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

Table C-3.73. Algal Biomass. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Algal Taxa Richness (a) N	C	SE	N	O	SE	CV	D	P	Total Algae N	C	SE	N	O	SE	CV	D	P	Perennials (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	6.67	1.69	6	4.33	1.20	0.3	+	0.286	6	2182.59	546.49	6	1421.54	1003.47	0.4	+	0.521	6	2167.16	542.91	6	1417.09	1004.13	0.5	+	0.526
14.2C/14.2	1	6	3.50	0.76	6	0.67	0.49	0.3	+	0.011	6	1048.21	475.23	6	0.17	0.17	0.6	+	0.007	6	1027.07	476.69	6	0.17	0.17	0.7	+	0.007
62762C/50983	1	6	4.33	1.28	6	0.83	0.40	0.4	+	0.026	6	1419.31	562.21	6	657.62	462.57	0.5	+	0.320	6	1384.07	564.67	6	657.62	462.57	0.5	+	0.343
Habitat Means			4.83	1.24		1.94	0.70		+			1550.03	527.98		693.11	488.74		+			1526.10	528.09		691.63	488.96		+	
Fisher's		Power ---			Power-50%	---		P-value	0.001		Power ---			Power-50%	---		P-value	0.007		Power ---			Power-50%	---		P-value	0.008	
Stouffer's		Power ---			Power-50%	0.876		P-value	0.001		Power ---			Power-50%	---		P-value	0.031		Power ---			Power-50%	---		P-value	0.035	
14.1C/14.1	2	6	8.17	1.89	6	7.33	2.11	0.3	+	0.774	6	1407.36	766.98	6	1358.97	614.80	0.5	-	0.962	6	1359.05	743.67	6	1343.77	617.93	0.5	-	0.988
14.2C/14.2	2	6	9.00	1.48	6	4.00	1.77	0.3	+	0.056	6	1688.72	475.66	6	82.87	42.98	0.4	+	0.041	6	1474.27	482.15	6	81.82	42.56	0.4	-	0.041
62762C/50983	2	6	13.17	1.85	5	5.20	1.02	0.2	+	0.006	6	2541.93	1043.71	5	1054.66	580.95	0.5	+	0.271	6	1903.01	894.18	5	1052.56	580.65	0.5	-	0.467
Habitat Means			10.11	1.74		5.51	1.63		+			1879.34	762.12		832.17	412.91		+			1578.78	706.67		826.05	413.72		+	
Fisher's		Power ---			Power-50%	---		P-value	0.002		Power ---			Power-50%	---		P-value	0.039		Power ---			Power-50%	---		P-value	0.060	
Stouffer's		Power ---			Power-50%	0.907		P-value	0.001		Power ---			Power-50%	---		P-value	0.054		Power 0.230			Power-50%	0.317		P-value	0.105	
14.1C/14.1	3	6	10.67	2.36	6	13.17	1.01	0.2	-	0.354	6	2301.64	758.78	6	2247.18	437.27	0.3	+	0.952	6	2164.96	727.23	6	1994.40	386.25	0.3	+	0.840
14.2C/14.2	3	3	7.00	0.58	6	9.17	2.76	0.3	-	0.610	3	2826.04	1732.27	6	1326.93	541.10	0.4	+	0.314	3	2121.27	550.61	6	1132.94	471.08	0.5	-	0.989
62762C/50983	3	6	14.50	1.43	5	8.20	2.58	0.2	-	0.052	6	1957.83	693.00	5	6836.62	1209.35	0.2	-	0.005	6	857.99	314.62	5	6682.56	1158.33	0.2	-	0.001
Habitat Means			10.72	1.46		10.18	2.12		-			2361.84	1061.35		3470.24	729.24		-			1381.41	530.82		3269.97	671.89		-	
Fisher's		Power 0.033			Power-50%	1.000		P-value	0.435xy		Power 0.039			Power-50%	0.397		P-value	0.520xy		Power ---			Power-50%	---		P-value	0.004	
Stouffer's		Power 0.003			Power-50%	1.000		P-value	0.915		Power 0.005			Power-50%	0.437		P-value	0.988		Power ---			Power-50%	---		P-value	0.001	

(a) 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.

Site Pair	MVD	Annuals (A) N	C	SE	N	O	SE	CV	D	P	Ephemerals (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	15.43	12.23	6	4.40	3.00	0.7	+	0.415	6	0.74	0.73	6	0.00	0.00	1.4	-	0.361									
14.2C/14.2	1	6	21.14	12.77	6	0.00	0.00	0.9	+	0.159	6	0.74	0.73	6	0.00	0.00	1.1	-	0.065									
62762C/50983	1	6	35.24	19.90	6	0.00	0.00	0.8	+	0.006	6	0.30	0.23	6	0.00	0.00	1.1	-										
Habitat Means			23.94	14.97		1.49	1.29		+			1.16	1.14		0.15	0.15		+										
Fisher's		Power ---			Power-50%	---		P-value	0.003		Power ---			Power-50%	---		P-value	0.053		Power ---			Power-50%	---		P-value		
Stouffer's		Power ---			Power-50%	0.135		P-value	0.001		Power ---			Power-50%	---		P-value	0.020		Power ---			Power-50%	---		P-value		
14.1C/14.1	2	6	48.31	27.45	6	15.19	11.87	0.7	-	0.294	6	0.57	0.37	6	5.46	5.45	1.3	-	0.889									
14.2C/14.2	2	6	214.45	94.54	6	1.05	0.44	0.6	-	0.005	6	4.64	2.64	6	0.36	0.23	0.8	+	0.227									
62762C/50983	2	6	638.92	216.73	5	2.20	0.89	0.5	+	0.001	6	62.03	45.80	5	0.89	0.78	1.1	+	0.123									
Habitat Means			300.56	112.91		6.21	4.40		+			22.41	16.27		2.23	2.16		+										
Fisher's		Power ---			Power-50%	---		P-value	0.000		Power ---			Power-50%	---		P-value	0.085		Power ---			Power-50%	---		P-value		
Stouffer's		Power ---			Power-50%	0.367		P-value	0.000		Power ---			Power-50%	---		P-value	0.043		Power ---			Power-50%	---		P-value		
14.1C/14.1	3	6	136.68	53.13	6	252.78	70.59	0.3	-	0.218	6	14.70	7.50	6	6.04	5.33	0.6	-	0.369									
14.2C/14.2	3	3	1704.77	1679.79	6	193.99	96.28	0.8	+	0.513	3	0.07	0.07	6	59.07	44.78	1.5	-	0.408									
62762C/50983	3	6	1099.85	408.98	5	154.05	91.03	0.5	+	0.155	6	74.47	42.50	5	125.63	80.12	0.6	-	0.568									
Habitat Means			980.43	713.96		200.27	85.97		+			29.75	16.69		63.58	43.41		-										
Fisher's		Power 0.148			Power-50%	0.201		P-value	0.233		Power 0.002			Power-50%	0.149		P-value	0.412		Power ---			Power-50%	---		P-value		
Stouffer's		Power 0.144			Power-50%	0.237		P-value	0.128		Power 0.007			Power-50%	0.269		P-value	0.308		Power ---			Power-50%	---		P-value		

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

Table C-3.74. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	6.95	6.54	6	1.48	1.48	1.1	+	0.551	6	1.17	1.17	6	0.45	0.45	1.1	+	0.579	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	32.45	20.59	6	0.00	0.00	0.9	+	0.176	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			13.13	9.04		0.49	0.49		+			0.39	0.39		0.15	0.15		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.055	Power	---		Power-50%		---		P-value	0.296	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	---		Power-50%		0.392		P-value	0.036	Power	---		Power-50%		---		P-value	0.338	Power	---		Power-50%		---		P-value	0.500
14.1C/14.1	2	6	5.36	2.56	6	6.82	5.72	0.7	-	0.820	6	0.00	0.00	6	5.45	5.45	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	7.74	3.75	6	0.36	0.23	0.7	+	0.208	6	4.17	2.72	6	0.20	0.14	0.9	+	0.561	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	139.84	115.82	5	0.62	0.53	1.3	+	0.003	6	57.88	46.17	5	0.00	0.00	1.2	+	0.265	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			50.98	40.71		2.60	2.16		+			20.68	16.30		1.89	1.86		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.005	Power	0.008		Power-50%		0.005		P-value	0.323	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	---		Power-50%		0.277		P-value	0.001	Power	0.003		Power-50%		0.012		P-value	0.177	Power	---		Power-50%		---		P-value	0.500
14.1C/14.1	3	6	15.80	6.87	6	7.31	5.19	0.5	+	0.347	6	12.07	6.57	6	6.04	5.32	0.7	+	0.492	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	3	18.07	17.87	6	54.27	45.19	1.2	-	0.607	3	0.07	0.07	6	49.53	45.86	1.8	-	0.676	3	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	74.93	46.20	5	77.76	77.21	0.8	-	0.975	6	66.00	38.42	5	76.46	76.46	0.8	-	0.900	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			36.27	23.64		46.45	42.53		-			26.04	15.02		44.01	42.55		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.121		P-value	0.649	Power	0.000		Power-50%		0.109		P-value	0.632	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	0.004		Power-50%		0.191		P-value	0.537	Power	0.004		Power-50%		0.228		P-value	0.485	Power	---		Power-50%		---		P-value	0.500

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.17	1.17	6	0.45	0.45	1.1	+	0.579	6	1.17	1.17	6	0.45	0.45	1.1	+	0.579
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.39	0.39		0.15	0.15		+			0.39	0.39		0.15	0.15		+	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.296	Power	---		Power-50%		---		P-value	0.296
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.338	Power	---		Power-50%		---		P-value	0.338
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	5.45	5.45	1.4	-	0.363	6	0.00	0.00	6	5.45	5.45	1.4	-	0.363
14.2C/14.2	2	6	0.00	0.00	6	0.07	0.07	1.4	-	0.363	6	4.17	2.72	6	0.14	0.13	0.9	+	0.436	6	4.17	2.72	6	0.14	0.13	0.9	+	0.436
62762C/50983	2	6	0.33	0.33	5	0.00	0.00	1.6	+	0.363	6	57.54	46.25	5	0.00	0.00	1.3	+	0.269	6	57.54	46.25	5	0.00	0.00	1.3	+	0.269
Habitat Means			0.11	0.11		0.02	0.02		-			20.57	16.32		1.86	1.86		+			20.57	16.32		1.86	1.86		+	
Fisher's		Power	---		Power-50%		---		P-value	0.301 y	Power	0.016		Power-50%		0.005		P-value	0.280	Power	0.018		Power-50%		0.018		P-value	0.280
Stouffer's		Power	---		Power-50%		---		P-value	0.623	Power	0.025		Power-50%		0.014		P-value	0.165	Power	0.025		Power-50%		0.013		P-value	0.165
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	12.07	6.57	6	6.04	5.32	0.7	+	0.492	6	1.13	0.88	6	5.72	5.38	1.1	-	0.733
14.2C/14.2	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.07	0.07	6	49.53	45.86	1.8	-	0.676	3	0.07	0.07	6	0.00	0.00	0.9	+	0.423
62762C/50983	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	66.00	38.42	5	76.46	76.46	0.8	-	0.900	6	3.22	2.96	5	76.46	76.46	1.2	-	0.924
Habitat Means			0.00	0.00		0.00	0.00		o			26.04	15.02		44.01	42.55		-			1.47	1.30		27.39	27.28		-	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	0.000		Power-50%		0.131		P-value	0.632	Power	0.001		Power-50%		0.001		P-value	0.673
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	0.003		Power-50%		0.237		P-value	0.485	Power	0.001		Power-50%		0.464		P-value	0.518

(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-3.74. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.78	5.37	6	1.03	1.03	1.1	+	0.538	6	5.43	5.43	6	0.00	0.00	1.4	+	0.363
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	32.45	20.59	6	0.00	0.00	0.9	+	0.176	6	20.13	13.18	6	0.00	0.00	0.9	+	0.187
Habitat Means			0.00	0.00		0.00	0.00		o			12.75	8.65		0.34	0.34		+			8.52	6.21		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.092	Power	0.004		Power-50%		0.004	P-value		0.146
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.047	Power	---		Power-50%		---	P-value		0.071
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.36	2.56	6	1.37	0.91	0.6	-	0.173	6	2.18	2.18	6	1.32	0.92	1.0	-	0.723
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.57	2.38	6	0.15	0.15	0.9	-	0.149	6	3.55	2.39	6	0.00	0.00	1.0	-	0.197
62762C/50983	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	81.97	69.82	5	0.54	0.54	1.3	+	0.004	6	61.42	51.68	5	0.00	0.00	1.3	-	0.288
Habitat Means			0.00	0.00		0.00	0.00		o			30.30	24.92		0.69	0.53		-			22.38	18.75		0.44	0.31		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.001	Power	0.146		Power-50%		0.146	P-value		0.104
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.075
14.1C/14.1	3	6	10.93	6.88	6	0.32	0.32	0.9	+	0.195	6	3.74	3.74	6	1.27	1.27	1.1	-	0.546	6	3.74	3.74	6	1.27	1.27	1.1	-	0.546
14.2C/14.2	3	3	0.00	0.00	6	49.53	45.86	1.8	-	0.329	3	18.00	17.90	6	2.59	2.46	0.8	+	0.422	3	18.00	17.90	6	2.58	2.47	0.8	-	0.421
62762C/50983	3	6	62.78	39.26	5	0.00	0.00	2.0	+	0.171	6	8.93	7.97	5	1.30	0.86	1.2	-	0.675	6	8.91	7.98	5	1.30	0.86	1.2	-	0.530
Habitat Means			24.57	15.38		16.62	15.39		+			10.22	9.87		1.72	1.53		+			10.21	9.87		1.72	1.53		-	
Fisher's		Power	0.127		Power-50%		0.082	P-value		0.128	Power	0.074		Power-50%		0.073	P-value		0.247	Power	0.060		Power-50%		0.060	P-value		0.212
Stouffer's		Power	---		Power-50%		0.128	P-value		0.089	Power	0.148		Power-50%		0.157	P-value		0.217	Power	0.115		Power-50%		0.152	P-value		0.164

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha melagonium (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.35	0.35	6	1.03	1.03	1.1	-	0.544	6	0.35	0.35	6	1.03	1.03	1.1	-	0.544	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	12.02	11.45	6	0.00	0.00	1.3	+	0.342	6	12.02	11.45	6	0.00	0.00	1.3	+	0.342	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			4.12	3.93		0.34	0.34		+			4.12	3.93		0.34	0.34		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.026		Power-50%		0.040	P-value		0.271	Power	0.021		Power-50%		0.044	P-value		0.271	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.135		Power-50%		0.223	P-value		0.170	Power	0.135		Power-50%		0.211	P-value		0.170	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	3.17	2.13	6	0.05	0.03	0.9	+	0.214	6	3.17	2.13	6	0.05	0.03	0.9	+	0.214	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.02	0.02	6	0.00	0.00	1.3	+	0.788	6	0.02	0.02	6	0.00	0.00	1.3	+	0.788	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	20.35	18.11	5	0.54	0.54	1.4	+	0.272	6	20.16	17.92	5	0.54	0.54	1.3	+	0.272	6	0.19	0.19	5	0.00	0.00	1.6	-	0.363
Habitat Means			7.85	6.75		0.20	0.19		+			7.78	6.69		0.20	0.19		+			0.06	0.06		0.00	0.00		-	
Fisher's		Power	0.067		Power-50%		0.032	P-value		0.112	Power	0.063		Power-50%		0.023	P-value		0.112	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		0.121	P-value		0.076	Power	---		Power-50%		---	P-value		0.076	Power	---		Power-50%		---	P-value		0.203
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	3	0.00	0.00	6	0.00	0.00	2.0	-	0.363	3	0.00	0.00	6	0.00	0.00	2.0	-	0.363	3	0.00	0.00	6	0.00	0.00	2.0	-	0.363
62762C/50983	3	6	0.00	0.00	5	0.00	0.00	0.8	+	0.662	6	0.00	0.00	5	0.00	0.00	0.8	+	0.662	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.044		Power-50%		0.013	P-value		0.267	Power	0.043		Power-50%		0.016	P-value		0.267	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.067		Power-50%		0.013	P-value		0.453	Power	0.064		Power-50%		0.016	P-value		0.453	Power	---		Power-50%		---	P-value		0.398

(b) Chaetomorpha melagonium not included.

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

Table C-3.74. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.30	0.23	6	0.00	0.00	1.1	+	0.248	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.08		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.024			Power-50%	0.027	P-value		0.175	Power	---			Power-50%	---	P-value		0.655	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	---			Power-50%	0.052	P-value		0.094	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.15	0.15	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.19	0.19	5	0.00	0.00	1.6	-	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.08	0.08	1.3	-	0.374
Habitat Means			0.06	0.06		0.05	0.05		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.03	0.03		-	
Fisher's		Power	---			Power-50%	---	P-value		0.301 y	Power	---			Power-50%	---	P-value		0.655	Power	---			Power-50%	---	P-value		0.409
Stouffer's		Power	---			Power-50%	---	P-value		0.623	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.208
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	2.15	2.15	1.9	-	0.893
62762C/50983	3	6	0.02	0.02	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.72	0.72		-	
Fisher's		Power	---			Power-50%	---	P-value		0.403	Power	---			Power-50%	---	P-value		0.655	Power	---			Power-50%	---	P-value		0.625
Stouffer's		Power	---			Power-50%	---	P-value		0.203	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.485

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

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	*Enteromorpha clathrata* (AE) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.655	Power	---			Power-50%	---	P-value		0.655	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500	Power	---			Power-50%	---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	5	0.08	0.08	1.3	-	0.374	6	0.00	0.00	5	0.08	0.08	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.03	0.03		-			0.00	0.00		0.03	0.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.409	Power	---			Power-50%	---	P-value		0.409	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	---			Power-50%	---	P-value		0.208	Power	---			Power-50%	---	P-value		0.208	Power	---			Power-50%	---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	3	0.00	0.00	6	2.15	2.15	1.9	-	0.893	3	0.00	0.00	6	2.15	2.15	1.9	-	0.893	3	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.72	0.72		-			0.00	0.00		0.72	0.72		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.625	Power	---			Power-50%	---	P-value		0.625	Power	---			Power-50%	---	P-value		0.655
Stouffer's		Power	---			Power-50%	---	P-value		0.485	Power	---			Power-50%	---	P-value		0.485	Power	---			Power-50%	---	P-value		0.500

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.74. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

		Enteromorpha intestinalis (AE)																							
Site Pair	WYD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
62762C/50983	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
14.2C/14.2	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000																	
62762C/50983	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.75. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Alaria sp. (A)							
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	6	2050.75	526.81	6	1308.79	1026.11	0.5	+	0.535	6	2048.88	526.40	6	1308.17	1026.20	0.5	+	0.535	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	973.52	452.28	6	0.00	0.00	0.7	+	0.001	6	972.78	451.91	6	0.00	0.00	0.7	+	0.001	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	1359.88	571.28	6	657.62	462.57	0.5	+	0.362	6	1359.87	571.27	6	657.62	462.57	0.5	+	0.362	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1461.38	516.79		655.47	496.23		+			1460.51	516.53		655.26	496.26		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		0.135	P-value		0.027	Power	---		Power-50%		---	P-value		0.027	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	677.35	434.98	6	1133.94	663.84	0.6	-	0.578	6	662.07	423.39	6	1133.83	663.87	0.6	-	0.562	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	1390.33	447.96	6	13.28	10.97	0.5	+	0.002	6	1389.83	447.95	6	13.27	10.97	0.5	+	0.002	6	63.53	63.53	6	0.00	0.00	1.4	-	0.363
62762C/50983	2	6	2043.34	1108.64	5	1052.21	580.51	0.6	+	0.476	6	2036.82	1108.38	5	1051.40	579.81	0.6	+	0.478	6	227.08	227.08	5	0.00	0.00	1.6	-	0.363
Habitat Means			1370.34	663.86		733.14	418.44		+			1362.91	659.90		732.83	418.22		+			96.87	96.87		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.009	Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.223
Stouffer's		Power	---		Power-50%		0.306	P-value		0.086	Power	---		Power-50%		---	P-value		0.087	Power	---		Power-50%		---	P-value		0.138
14.1C/14.1	3	6	1272.87	775.38	6	448.62	212.49	0.7	-	0.329	6	1261.80	775.79	6	435.92	217.03	0.7	+	0.329	6	0.00	0.00	6	42.87	42.87	1.4	-	0.363
14.2C/14.2	3	3	1784.17	1706.65	6	748.12	375.51	0.7	-	0.433	3	1784.17	1706.65	6	740.52	377.74	0.7	+	0.430	3	1421.50	1407.27	6	81.55	81.55	0.8	-	0.185
62762C/50983	3	6	1125.85	633.06	5	6701.47	1136.39	0.2	-	0.002	6	1117.38	634.79	5	6651.88	1142.77	0.2	-	0.002	6	596.53	312.43	5	0.00	0.00	0.8	-	0.215
Habitat Means			1394.30	1038.36		2632.74	574.80		-			1387.78	1039.08		2609.44	579.18		-			672.68	573.24		41.47	41.47		+	
Fisher's		Power	0.010		Power-50%		0.181	P-value		0.352xy	Power	0.012		Power-50%		0.113	P-value		0.351xy	Power	---		Power-50%		---	P-value		0.092
Stouffer's		Power	0.003		Power-50%		0.229	P-value		0.992	Power	0.004		Power-50%		0.183	P-value		0.992	Power	---		Power-50%		---	P-value		0.059

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

		Fucus cottonii (P)								Fucus gardneri (P)								Laminaria sp. (P)							
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2048.88	526.40	6	1308.17	1026.20	0.5	-	0.535	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	972.78	451.91	6	0.00	0.00	0.7	-	0.001	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1359.87	571.27	6	657.62	462.57	0.5	-	0.362	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1460.51	516.53		655.26	496.26		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.027	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	662.07	423.39	6	1133.83	663.87	0.6	-	0.562	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1326.28	435.03	6	13.27	10.97	0.5	+	0.002	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	1809.73	888.30	5	1051.40	579.81	0.5	+	0.513	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			1266.03	582.24		732.83	418.22		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.009	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.095	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1261.80	775.79	6	393.05	227.79	0.7	+	0.308	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	362.67	301.40	6	658.97	301.47	0.6	-	0.559	3	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	520.85	357.32	5	6651.88	1142.77	0.2	-	0.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			715.11	478.17		2567.97	557.34		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.75. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Petalonia fascia (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Analipus japonicus (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.074		Power-50%		0.153	P-value		0.265	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.066		Power-50%		0.154	P-value		0.107	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.05	1.05	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363	6	0.04	0.03	6	0.01	0.00	1.2	+	0.824	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.07	0.04	5	0.00	0.00	0.9	+	0.150	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.39	0.38		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.180		Power-50%		0.114	P-value		0.110	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.051	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	*3*	*0.00*	*0.00*	6	*0.05*	*0.05*	*2.0*	-	*0.363*	*3*	*0.00*	*0.00*	6	*0.00*	*0.00*	-	o	1.000
62762C/50983	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.02	0.02	5	0.42	0.42	1.2	-	0.459	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.01	0.01		0.16	0.16		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.002		Power-50%		---	P-value		0.258	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.003		Power-50%		---	P-value		0.175	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	*Dictyosiphon sinicola* (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.04	0.03	5	0.00	0.00	1.5	-	0.338	6	0.03	0.03	5	0.00	0.00	1.6	-	0.363	6	0.00	0.00	5	0.00	0.00	1.6	-	0.363
Habitat Means			0.01	0.01		0.00	0.00		-			0.01	0.01		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.387	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.190	Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.203
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	5	0.42	0.42	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.42	0.42	1.3	-	0.374
Habitat Means			0.00	0.00		0.14	0.14		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.14	0.14		-	
Fisher's		Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.208	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.208

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

Table C-3.75. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	1.28	1.28	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.74	0.73	6	0.00	0.00	1.4	+	0.362	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	0.8	+	0.549	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		+			0.67	0.67		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	0.073		Power-50%		0.131	P-value		0.265	Power	0.038		Power-50%		0.047	P-value		0.152	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.065		Power-50%		0.132	P-value		0.107	Power	0.234		Power-50%		0.323	P-value		0.143	Power	---		Power-50%		---	P-value		0.203
14.1C/14.1	2	6	1.05	1.05	6	0.00	0.00	1.4	+	0.363	6	0.57	0.37	6	0.00	0.00	0.9	-	0.285	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.04	0.03	6	0.01	0.00	1.2	+	0.824	6	0.46	0.35	6	0.00	0.00	1.1	-	0.123	6	0.45	0.36	6	0.00	0.00	1.1	+	0.258
62762C/50983	2	6	0.04	0.03	5	0.00	0.00	1.5	+	0.338	6	3.96	2.10	5	0.81	0.80	0.7	-	0.226	6	0.65	0.49	5	0.00	0.00	1.2	+	0.364
Habitat Means			0.37	0.37		0.00	0.00		+			1.66	0.94		0.27	0.27		+			0.37	0.28		0.00	0.00		-	
Fisher's		Power	0.090		Power-50%		0.101	P-value		0.189	Power	---		Power-50%		---	P-value		0.032	Power	0.146		Power-50%		0.146	P-value		0.180
Stouffer's		Power	0.277		Power-50%		0.396	P-value		0.115	Power	---		Power-50%		---	P-value		0.032	Power	0.242		Power-50%		0.160	P-value		0.124
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.64	1.71	6	0.00	0.00	0.9	+	0.107	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	3	0.00	0.00	6	0.05	0.05	2.0	-	0.363	3	0.00	0.00	6	7.39	7.38	2.0	-	0.363	3	0.00	0.00	6	0.03	0.03	2.0	-	0.363
62762C/50983	3	6	0.02	0.02	5	0.00	0.00	1.4	-	0.865	6	8.44	4.71	5	49.16	45.84	1.0	-	0.829	6	0.20	0.20	5	0.00	0.00	1.5	-	0.745
Habitat Means			0.01	0.01		0.02	0.02		-			3.69	2.14		18.85	17.74		-			0.07	0.07		0.01	0.01		-	
Fisher's		Power	---		Power-50%		---	P-value		0.431	Power	0.002		Power-50%		0.058	P-value		0.508	Power	---		Power-50%		---	P-value		0.454 y
Stouffer's		Power	---		Power-50%		---	P-value		0.459	Power	0.006		Power-50%		0.074	P-value		0.501	Power	---		Power-50%		---	P-value		0.515

(a) Genera not separated.

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

Site Pair	MVD	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	1.28	1.28	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.59	0.58	6	0.62	0.62	1.0	-	0.971
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.73	0.73	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.43	0.43		0.00	0.00		+			0.24	0.24		0.00	0.00		-			0.20	0.19		0.21	0.21		-	
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.403	Power	0.000		Power-50%		0.000	P-value		0.647
Stouffer's		Power	---		Power-50%		---	P-value		0.302	Power	---		Power-50%		---	P-value		0.398	Power	0.000		Power-50%		0.000	P-value		0.496
14.1C/14.1	2	6	0.48	0.34	6	0.00	0.00	1.0	+	0.290	6	0.08	0.08	6	0.00	0.00	1.4	-	0.363	6	13.67	12.51	6	0.10	0.10	1.3	+	0.397
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	2.88	1.82	5	0.80	0.80	0.8	+	0.359	6	0.43	0.33	5	0.00	0.00	1.2	+	0.244	6	2.49	2.48	5	0.00	0.00	1.6	+	0.363
Habitat Means			1.12	0.72		0.27	0.27		+			0.17	0.14		0.00	0.00		+			5.38	5.00		0.03	0.03		+	
Fisher's		Power	---		Power-50%		---	P-value		0.058	Power	0.017		Power-50%		0.034	P-value		0.237	Power	0.002		Power-50%		0.002	P-value		0.236
Stouffer's		Power	---		Power-50%		0.731	P-value		0.063	Power	0.023		Power-50%		0.057	P-value		0.143	Power	0.006		Power-50%		0.006	P-value		0.141
14.1C/14.1	3	6	0.40	0.33	6	0.00	0.00	1.1	+	0.272	6	2.23	1.45	6	0.00	0.00	0.9	+	0.262	6	7.25	4.34	6	11.03	9.46	0.8	-	0.724
14.2C/14.2	3	3	0.00	0.00	6	7.35	7.35	2.0	-	0.363	3	0.00	0.00	6	0.00	0.00	2.0	-	0.363	3	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	8.22	4.76	5	49.16	45.84	1.0	-	0.672	6	0.02	0.02	5	0.00	0.00	1.3	-	0.543	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363
Habitat Means			2.87	1.70		18.84	17.73		-			0.75	0.49		0.00	0.00		·			2.42	1.45		3.68	3.15		+	
Fisher's		Power	0.008		Power-50%		0.042	P-value		0.436	Power	0.019		Power-50%		0.038	P-value		0.314	Power	0.005		Power-50%		0.005	P-value		0.458 y
Stouffer's		Power	0.004		Power-50%		0.077	P-value		0.369	Power	0.021		Power-50%		0.088	P-value		0.268	Power	0.011		Power-50%		0.061	P-value		0.232

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

Table C-3.75. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.57	0.57	6	0.00	0.00	1.4	+	0.363	6	0.02	0.02	6	0.62	0.62	1.4	-	0.940	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.19	0.19		0.00	0.00		+			0.01	0.01		0.21	0.21		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.000		Power-50%		0.001	P-value		0.638	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	0.000		Power-50%		0.000	P-value		0.491	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	13.67	12.51	6	0.10	0.10	1.3	+	0.397	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	2.49	2.48	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			5.38	5.00		0.03	0.03		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.002		Power-50%		0.002	P-value		0.236	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.008		Power-50%		0.004	P-value		0.141	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	1.58	1.04	6	9.67	9.67	1.2	-	0.675	6	5.67	4.27	6	1.37	1.14	0.9	+	0.354	6	1.18	1.18	6	1.67	1.67	1.0	-	0.818
14.2C/14.2	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.17	0.17	2.0	-	0.363
62762C/50983	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.53	0.35		3.22	3.22		-			1.89	1.42		0.46	0.38		+			0.39	0.39		0.61	0.61		-	
Fisher's		Power	0.002		Power-50%		0.016	P-value		0.551	Power	0.001		Power-50%		0.001	P-value		0.219	Power	---		Power-50%		---	P-value		0.361
Stouffer's		Power	0.000		Power-50%		0.002	P-value		0.452	Power	0.004		Power-50%		0.005	P-value		0.136	Power	---		Power-50%		---	P-value		0.373

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

Site Pair	MVD	Ralfsia fungiformis (P) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62762C/50983	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
14.1C/14.1	3	6	1.18	1.18	6	1.67	1.67	1.0	-	0.818																		
14.2C/14.2	3	3	0.00	0.00	6	0.17	0.17	2.0	-	0.363																		
62762C/50983	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000																		
Habitat Means			0.39	0.39		0.61	0.61		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.361	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.373	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.76. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	124.88	73.52	6	111.28	69.78	0.6	+	0.896	6	30.79	13.93	6	71.15	63.44	0.9	-	0.881	6	27.17	12.23	6	71.15	63.44	0.9	-	0.894
14.2C/14.2	1	6	74.69	32.89	6	0.17	0.17	0.6	+	0.011	6	48.49	23.63	6	0.00	0.00	0.7	+	0.006	6	28.09	14.63	6	0.00	0.00	0.7	+	0.041
62762C/50983	1	6	26.99	15.39	6	0.00	0.00	0.8	+	0.022	6	0.80	0.56	6	0.00	0.00	1.0	+	0.211	6	0.80	0.56	6	0.00	0.00	1.0	+	0.211
Habitat Means			75.52	40.60		37.15	23.32		+			26.69	12.71		23.72	21.15		+			18.69	9.14		23.72	21.15		+	
Fisher's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.036 y
Stouffer's		Power	---		Power-50%		0.302	P-value		0.002	Power	---		Power-50%		---	P-value		0.029	Power	---		Power-50%		---	P-value		0.045
14.1C/14.1	2	6	724.66	346.46	6	218.21	103.43	0.5	+	0.192	6	76.36	44.91	6	123.28	78.22	0.6	-	0.614	6	72.39	45.84	6	122.80	78.18	0.7	-	0.590
14.2C/14.2	2	6	290.66	79.72	6	69.24	43.76	0.4	+	0.035	6	183.24	40.27	6	61.92	40.33	0.3	+	0.059	6	72.70	46.51	6	61.53	40.09	0.6	-	0.859
62762C/50983	2	6	358.75	160.50	5	1.83	0.90	0.7	+	0.057	6	135.01	79.28	5	0.20	0.09	0.9	+	0.092	6	46.27	17.59	5	0.06	0.06	0.6	+	0.097
Habitat Means			458.02	195.56		96.43	49.36		+			131.53	54.82		61.80	39.55		+			63.79	36.65		61.46	39.44		+	
Fisher's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.030	Power	0.057		Power-50%		0.057	P-value		0.208
Stouffer's		Power	---		Power-50%		0.252	P-value		0.003	Power	---		Power-50%		---	P-value		0.026	Power	---		Power-50%		---	P-value		0.078
14.1C/14.1	3	6	1012.96	355.99	6	1791.25	405.21	0.3	-	0.180	6	75.94	36.95	6	319.34	136.28	0.5	-	0.116	6	40.57	17.27	6	261.31	138.27	0.7	-	0.146
14.2C/14.2	3	3	1023.80	592.29	6	524.54	259.08	0.5	+	0.388	3	384.78	246.68	6	177.58	97.37	0.5	+	0.368	3	119.85	76.36	6	145.75	92.85	0.7	-	0.863
62762C/50983	3	6	757.05	186.95	5	57.39	35.95	0.4	+	0.119	6	185.35	75.71	5	39.94	29.43	0.5	+	0.132	6	41.78	17.17	5	25.42	20.61	0.6	-	0.553
Habitat Means			931.27	378.41		791.06	233.41		+			215.36	119.78		178.96	87.69		+			67.40	36.93		144.16	83.91		-	
Fisher's		Power	0.447		Power-50%		0.478	P-value		0.167	Power	0.146		Power-50%		0.331	P-value		0.177	Power	0.068		Power-50%		0.068	P-value		0.271
Stouffer's		Power	---		Power-50%		0.532	P-value		0.098	Power	0.051		Power-50%		0.406	P-value		0.118	Power	0.067		Power-50%		0.355	P-value		0.531

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

		Total Palmaria (A)								Palmaria spp. (A)								Palmaria callophylloides (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	3.62	2.29	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.22	2.06	6	0.00	0.00	0.9	-	0.179
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.21	0.76		0.00	0.00		+			0.00	0.00		0.00	0.00		o			1.07	0.69		0.00	0.00		-	
Fisher's		Power	0.147		Power-50%		0.125	P-value		0.139	Power	---		Power-50%		---	P-value		0.655	Power	0.019		Power-50%		0.019	P-value		0.269
Stouffer's		Power	0.147		Power-50%		0.128	P-value		0.111	Power	---		Power-50%		---	P-value		0.500	Power	0.003		Power-50%		0.001	P-value		0.351
14.1C/14.1	2	6	3.97	3.97	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.07	0.07	6	0.00	0.00	1.4	-	0.350
14.2C/14.2	2	6	30.85	25.74	6	0.00	0.00	1.2	+	0.285	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	26.27	26.27	6	0.00	0.00	1.4	+	0.363
62762C/50983	2	6	85.14	76.23	5	0.00	0.00	1.4	+	0.008	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	80.88	76.89	5	0.00	0.00	1.5	+	0.166
Habitat Means			39.98	35.31		0.00	0.00		+			0.00	0.00		0.00	0.00		o			35.74	34.41		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.065
Stouffer's		Power	---		Power-50%		0.305	P-value		0.001	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.037
14.1C/14.1	3	6	9.13	5.10	6	2.90	2.90	0.7	+	0.313	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	3	225.33	225.33	6	13.35	5.60	0.8	+	0.411	3	0.00	0.00	6	2.47	2.47	2.0	-	0.363	3	7.53	7.53	6	3.08	2.96	0.8	+	0.520
62762C/50983	3	6	137.60	71.87	5	14.06	9.15	0.7	+	0.098	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.50	1.50	5	12.00	7.83	0.8	-	0.163
Habitat Means			124.02	100.77		10.10	5.88		+			0.22	0.22		0.82	0.82		+			3.01	3.01		5.03	3.60		-	
Fisher's		Power	---		Power-50%		---	P-value		0.045	Power	---		Power-50%		---	P-value		0.519 y	Power	0.019		Power-50%		0.019	P-value		0.320
Stouffer's		Power	---		Power-50%		0.503	P-value		0.021	Power	---		Power-50%		---	P-value		0.500	Power	0.032		Power-50%		---	P-value		0.137

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

Table C-3.76. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.40	0.40	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.138	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.90	3.90	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.37	0.37	1.4	-	0.363
14.2C/14.2	2	6	4.58	4.58	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	1.58	1.31	5	0.00	0.00	1.3	+	0.281	6	2.67	2.67	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.04	0.04	1.3	-	0.374
Habitat Means			2.06	1.97		0.00	0.00		-			2.19	2.19		0.00	0.00		+			0.00	0.00		0.14	0.14		-	
Fisher's		Power	0.029		Power-50%		0.010	P-value		0.190	Power	0.000		Power-50%		0.000	P-value		0.223	Power	---		Power-50%		---	P-value		0.227
Stouffer's		Power	0.061		Power-50%		0.021	P-value		0.107	Power	0.000		Power-50%		0.001	P-value		0.138	Power	---		Power-50%		---	P-value		0.142
14.1C/14.1	3	6	4.50	2.87	6	0.00	0.00	0.9	+	0.178	6	3.97	2.38	6	2.90	2.90	0.8	+	0.782	6	26.12	26.10	6	11.15	3.96	1.0	-	0.084
14.2C/14.2	3	3	217.80	217.80	6	0.00	0.00	0.9	+	0.423	3	0.00	0.00	6	7.80	6.03	1.5	-	0.252	3	0.00	0.00	6	0.57	0.57	2.0	-	0.363
62762C/50983	3	6	119.58	76.35	5	0.58	0.58	1.0	+	0.024	6	16.52	10.64	5	1.48	1.36	0.9	+	0.298	6	0.92	0.92	5	0.06	0.06	1.5	-	0.784
Habitat Means			113.96	99.01		0.19	0.19		+			6.83	4.34		4.06	3.43		-			9.01	9.00		3.93	1.53		+	
Fisher's		Power	---		Power-50%		---	P-value		0.010	Power	0.043		Power-50%		0.061	P-value		0.428	Power	0.000		Power-50%		0.000	P-value		0.196
[illegible]		Power			Power-50%		0.286	P-value		0.004	Power	0.014		Power-50%		0.093	P-value		0.240	Power	0.000		Power-50%		0.000	P-value		0.314

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

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	91.11	66.10	6	38.29	16.63	0.7	+	0.890
14.2C/14.2	1	6	20.40	12.84	6	0.00	0.00	0.9	+	0.173	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	26.20	17.84	6	0.17	0.17	1.0	+	0.015
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	23.40	15.67	6	0.00	0.00	0.9	+	0.023
Habitat Means			6.80	4.28		0.00	0.00		·			0.00	0.00		0.00	0.00		o			46.90	33.20		12.82	5.60		+	
Fisher's		Power	0.011		Power-50%		0.009	P-value		0.264	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.002
Stouffer's		Power	0.002		Power-50%		0.004	P-value		0.349	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.002
14.1C/14.1	2	6	0.00	0.00	6	0.12	0.12	1.4	-	0.356	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	636.22	343.31	6	90.16	67.91	0.7	-	0.607
14.2C/14.2	2	6	79.68	34.87	6	0.38	0.31	0.6	+	0.001	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	94.69	65.30	6	7.25	6.58	0.9	-	0.053
62762C/50983	2	6	3.60	3.60	5	0.10	0.10	1.5	+	0.498	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	48.64	13.21	5	1.29	0.95	0.4	-	0.137
Habitat Means			27.76	12.82		0.20	0.18		+			0.00	0.00		0.00	0.00		o			259.85	140.61		32.90	25.15		+	
Fisher's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.020
Stouffer's		Power	---		Power-50%		0.040	P-value		0.096	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.020
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.12	0.12	6	43.99	16.03	0.5	-	0.009	6	886.63	317.43	6	1271.09	280.69	0.3	-	0.386
14.2C/14.2	3	3	36.00	31.37	6	3.82	1.90	0.7	+	0.557	3	3.60	3.60	6	14.10	7.51	0.8	-	0.382	3	623.14	587.85	6	328.62	231.12	0.7	+	0.583
62762C/50983	3	6	4.83	2.41	5	0.40	0.40	0.7	+	0.123	6	0.22	0.14	5	0.00	0.00	1.0	+	0.185	6	314.95	143.39	5	5.36	5.36	0.7	+	0.010
Habitat Means			13.61	11.26		1.41	0.77		+			1.31	1.29		19.36	7.85		-			608.24	349.56		535.02	172.39		+	
Fisher's		Power	0.301		Power-50%		0.127	P-value		0.202	Power	---		Power-50%		---	P-value		0.027	Power	---		Power-50%		---	P-value		0.037
[illegible]		Power	---		Power-50%		0.152	P-value		0.094	Power	0.011		Power-50%		0.283	P-value		0.589	Power	---		Power-50%		---	P-value		0.012

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

Table C-3.76. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

		Cryptosiphonia woodii (A)									Dumontia contorta (AE)									Endocladia muricata (P)								
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.52	0.50	1.4	-	0.323	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	1.41	1.00	6	10.05	9.33	1.2	-	0.454
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	26.20	17.84	6	0.17	0.17	1.0	+	0.015
62762C/50983	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	7.67	4.43	6	0.00	0.00	0.8	+	0.144
Habitat Means			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o			11.76	7.76		3.41	3.16		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.378	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.017
Stouffer's		Power	0.000		Power-50%		---	P-value		0.389	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.035
14.1C/14.1	2	6	11.62	11.58	6	0.77	0.64	1.3	-	0.739	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	2.25	2.25	6	18.62	12.43	0.9	-	0.054
14.2C/14.2	2	6	2.40	2.40	6	0.00	0.00	1.4	+	0.372	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	9.27	4.98	6	7.02	6.62	0.7	+	0.791
62762C/50983	2	6	1.63	1.28	5	0.00	0.00	1.2	+	0.345	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	5.48	5.44	5	0.10	0.10	1.5	+	0.580
Habitat Means			5.22	5.08		0.26	0.21		+			0.00	0.00		0.00	0.00		o			5.67	4.22		8.58	6.38		+	
Fisher's		Power	0.041		Power-50%		0.074	P-value		0.181	Power	---		Power-50%		---	P-value		0.655	Power	0.009		Power-50%		0.009	P-value		0.625xy
Stouffer's		Power	0.185		Power-50%		0.392	P-value		0.112	Power	---		Power-50%		---	P-value		0.500	Power	0.015		Power-50%		0.509	P-value		0.487
14.1C/14.1	3	6	25.79	19.44	6	33.25	20.70	0.7	-	0.798	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.39	0.39	1.4	-	0.359
14.2C/14.2	3	3	0.00	0.00	6	2.32	2.24	1.9	-	0.348	3	0.00	0.00	6	0.00	0.00		- o	1.000	3	23.77	23.77	6	0.00	0.00	0.9	+	0.423
62762C/50983	3	6	21.48	15.81	5	0.10	0.10	1.1	+	0.223	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
Habitat Means			15.76	11.75		11.89	7.68		-			0.00	0.00		0.00	0.00		o			7.92	7.92		0.13	0.13		-	
Fisher's		Power	0.010		Power-50%		0.076	P-value		0.473 y	Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.000	P-value		0.506 y
Stouffer's		Power	0.007		Power-50%		0.112	P-value		0.781	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.487

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

		Gloiopeltis furcata (A)									Microcladia borealis (A)									Nemalion helminthoides (A)								
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	2.25	2.25	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
14.2C/14.2	2	6	0.13	0.13	6	0.10	0.10	1.0	+	0.853	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	16.87	16.87	6	0.13	0.13	1.4	+	0.576
62762C/50983	2	6	0.00	0.00	5	0.18	0.18	1.2	-	0.314	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
Habitat Means			0.05	0.05		0.09	0.09		-			0.00	0.00		0.75	0.75		-			5.62	5.62		0.04	0.04		-	
Fisher's		Power	0.001		Power-50%		---	P-value		0.487 y	Power	---		Power-50%		---	P-value		0.403	Power	0.000		Power-50%		0.000	P-value		0.511
Stouffer's		Power	0.014		Power-50%		---	P-value		0.729	Power	---		Power-50%		---	P-value		0.398	Power	0.000		Power-50%		0.000	P-value		0.437
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.10	0.10	6	11.62	5.66	0.7	-	0.008	6	0.00	0.00	6	0.00	0.00		- o	1.000
14.2C/14.2	3	3	0.00	0.00	6	0.00	0.00		- o	1.000	3	0.17	0.17	6	0.48	0.48	1.5	-	0.672	3	0.00	0.00	6	0.00	0.00		- o	1.000
62762C/50983	3	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.09	0.09		4.03	2.05		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.024	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.145		Power-50%		---	P-value		0.191	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.76. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	88.55	65.37	6	27.72	17.53	0.8	+	0.390	6	88.55	65.37	6	27.72	17.53	0.8	+	0.390	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	15.72	15.72	6	0.00	0.00	1.4	-	0.363	6	15.72	15.72	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			34.76	27.03		9.24	5.84		+			34.76	27.03		9.24	5.84		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.063		Power-50%		0.041	P-value		0.233	Power	0.057		Power-50%		0.033	P-value		0.233	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.079		Power-50%		0.070	P-value		0.141	Power	0.076		Power-50%		0.055	P-value		0.141	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	284.81	195.27	6	0.79	0.78	1.0	+	0.080	6	209.38	196.87	6	0.79	0.78	1.3	-	0.256	6	75.42	75.42	6	0.00	0.00	1.4	-	0.363
14.2C/14.2	2	6	63.45	63.45	6	0.00	0.00	1.4	+	0.363	6	63.45	63.45	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	32.21	15.07	5	1.00	1.00	0.7	+	0.036	6	32.21	15.07	5	1.00	1.00	0.7	+	0.036	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			126.82	91.26		0.60	0.59		+			101.68	91.80		0.60	0.59		+			25.14	25.14		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.016	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		0.158	P-value		0.004	Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	3	6	6.49	4.55	6	1.80	1.57	0.8	+	0.354	6	4.70	4.49	6	1.80	1.57	1.0	+	0.555	6	1.78	1.78	6	0.00	0.00	1.4	-	0.363
14.2C/14.2	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	55.25	46.51	5	5.26	5.26	1.2	+	0.347	6	55.25	46.51	5	4.16	4.16	1.2	+	0.339	6	0.00	0.00	5	1.10	1.10	1.3	-	0.374
Habitat Means			20.58	17.02		2.35	2.28		+			19.98	17.00		1.99	1.91		+			0.59	0.59		0.37	0.37		-	
Fisher's		Power	0.025		Power-50%		0.029	P-value		0.213	Power	0.010		Power-50%		0.006	P-value		0.277	Power	---		Power-50%		---	P-value		0.517
Stouffer's		Power	0.049		Power-50%		0.075	P-value		0.130	Power	0.019		Power-50%		0.025	P-value		0.148	Power	---		Power-50%		---	P-value		0.710

(b) Neorhodomela larix not included.

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

Site Pair	MVD	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.15	0.98	6	0.00	0.00	1.2	+	0.294	6	1.76	1.65	6	1.84	1.83	1.0	-	0.975
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.38	0.33		0.00	0.00		+			0.59	0.55		0.61	0.61		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.001		Power-50%		0.000	P-value		0.359	Power	0.000		Power-50%		0.000	P-value		0.648
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	0.000		Power-50%		0.000	P-value		0.382	Power	0.000		Power-50%		0.000	P-value		0.496
14.1C/14.1	2	6	0.00	0.00	6	3.57	3.57	1.4	-	0.370	6	337.54	325.23	6	64.17	63.37	1.2	+	0.445	6	10.13	7.11	6	1.82	1.53	0.9	+	0.459
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	2.57	2.57	6	0.00	0.00	1.4	+	0.363	6	12.73	10.32	6	0.07	0.07	1.1	+	0.372
62762C/50983	2	6	1.67	1.67	5	0.00	0.00	1.6	+	0.363	6	7.65	3.15	5	0.00	0.00	0.6	+	0.060	6	6.33	3.87	5	0.26	0.26	0.9	+	0.011
Habitat Means			0.56	0.56		1.19	1.19		+			115.92	110.32		21.39	21.12		+			9.73	7.10		0.72	0.62		-	
Fisher's		Power	0.001		Power-50%		---	P-value		0.300 y	Power	---		Power-50%		---	P-value		0.037	Power	---		Power-50%		---	P-value		0.011
Stouffer's		Power	0.022		Power-50%		---	P-value		0.202	Power	---		Power-50%		---	P-value		0.014	Power	---		Power-50%		---	P-value		0.003
14.1C/14.1	3	6	273.90	263.11	6	954.03	269.60	0.4	-	0.101	6	580.35	273.05	6	270.00	125.70	0.5	+	0.326	6	25.16	10.66	6	2.36	1.34	0.6	-	0.549
14.2C/14.2	3	3	599.21	599.21	6	259.65	229.49	0.8	+	0.532	3	0.00	0.00	6	66.17	62.82	1.9	-	0.340	3	0.10	0.10	6	0.19	0.18	1.3	-	0.764
62762C/50983	3	6	6.47	4.83	5	0.00	0.00	1.2	+	0.257	6	231.76	160.30	5	0.00	0.00	1.1	+	0.208	6	54.70	24.26	5	7.56	6.54	0.6	-	0.120
Habitat Means			293.19	289.05		404.56	166.36		+			270.70	144.45		112.06	62.84		+			26.65	11.67		3.37	2.69		-	
Fisher's		Power	0.037		Power-50%		0.058	P-value		0.334 y	Power	0.067		Power-50%		0.108	P-value		0.202	Power	0.262		Power-50%		0.262	P-value		0.164
Stouffer's		Power	0.005		Power-50%		0.169	P-value		0.227	Power	0.011		Power-50%		0.162	P-value		0.123	Power	---		Power-50%		---	P-value		0.066

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

Table C-3.76. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Antithamnion/Antithamnionella (A) (b) N	C	SE	N	O	SE	CV	D	P	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.83	6	0.00	0.00	1.4	-	0.363
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.28	0.28		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.48	0.48	6	0.00	0.00	1.4	+	0.363
14.2C/14.2	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.02	0.02	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.16	0.16		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398

(b) Genera not separated.

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

Site Pair	MVD	Ceramium sp. (A) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Scagelia/Hollenbergia (P) (b) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.92	0.82	6	1.83	1.83	1.0	-	0.660	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.31	0.27		0.61	0.61		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.000	P-value		0.545	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.450	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.13	7.11	6	1.82	1.53	0.9	+	0.459	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	12.73	10.32	6	0.07	0.07	1.1	+	0.372	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	6.33	3.87	5	0.26	0.26	0.9	+	0.011	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			9.73	7.10		0.72	0.62		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	1.17	1.17	6	0.50	0.50	1.1	+	0.611	6	23.51	11.24	6	1.86	1.38	0.6	-	0.587	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
14.2C/14.2	3	3	0.00	0.00	6	0.00	0.00	-	o	1.000	3	0.10	0.10	6	0.19	0.18	1.3	-	0.767	3	0.00	0.00	6	0.00	0.00	2.0	-	0.363
62762C/50983	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	54.67	24.27	5	7.56	6.54	0.6	-	0.121	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.39	0.39		0.17	0.17		+			26.10	11.87		3.20	2.70		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.525	Power	0.230		Power-50%		0.466	P-value		0.172	Power	---		Power-50%		---	P-value		0.223
Stouffer's		Power	---		Power-50%		---	P-value		0.442	Power	---		Power-50%		---	P-value		0.068	Power	---		Power-50%		---	P-value		0.302

(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-3.76. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	1.23	1.23	6	0.00	0.00	1.4	+	0.598	6	1.23	1.23	6	0.00	0.00	1.4	+	0.598	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	2.78	2.78	6	0.00	0.00	1.4	+	0.363	6	2.78	2.78	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.34	1.34		0.00	0.00		+			1.34	1.34		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.302	Power	---		Power-50%		---	P-value		0.302	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.163	Power	---		Power-50%		---	P-value		0.163	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	1.95	1.48	6	2.95	2.95	1.0	-	0.768	6	1.95	1.48	6	2.95	2.95	1.0	-	0.768	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	168.77	85.42	5	0.08	0.08	0.8	+	0.010	6	168.77	85.42	5	0.08	0.08	0.8	-	0.010	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			56.91	28.97		1.01	1.01		-			56.91	28.97		1.01	1.01		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.066	P-value		0.501xy	Power	0.000		Power-50%		0.059	P-value		0.501xy	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.096	P-value		0.977	Power	0.000		Power-50%		0.096	P-value		0.977	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	24.57	21.64	6	86.30	64.97	0.9	-	0.389	6	24.57	21.64	6	86.30	64.97	0.9	-	0.389	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	3	0.00	0.00	6	15.92	10.39	1.3	-	0.186	3	0.00	0.00	6	15.92	10.39	1.3	-	0.186	3	0.00	0.00	6	0.02	0.02	2.0	-	0.363
62762C/50983	3	6	200.17	92.15	5	4.52	2.55	0.7	-	0.053	6	200.17	92.15	5	4.52	2.55	0.7	+	0.053	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			74.91	37.93		35.38	25.97		-			74.91	37.93		35.58	25.97		-			0.00	0.00		0.01	0.01		-	
Fisher's		Power	0.143		Power-50%		0.018	P-value		0.232xy	Power	0.146		Power-50%		0.020	P-value		0.232xy	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.038		Power-50%		0.028	P-value		0.875	Power	0.039		Power-50%		0.027	P-value		0.875	Power	---		Power-50%		---	P-value		0.398

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

Site Pair	MVD	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Calcified Reds N	C	SE	N	O	SE	CV	D	P	Articulate Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	1.23	1.23	6	0.00	0.00	1.4	+	0.598	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	2.78	2.78	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.34	1.34		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.302	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.163	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	1.95	1.48	6	2.95	2.95	1.0	-	0.768	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	168.77	85.42	5	0.08	0.08	0.8	-	0.010	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			56.91	28.97		1.01	1.01		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.000		Power-50%		0.066	P-value		0.501xy	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.000		Power-50%		0.104	P-value		0.977	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	3	6	24.57	21.64	6	86.30	64.97	0.9	-	0.389	6	0.67	0.67	6	112.15	66.86	0.8	-	0.008	6	0.67	0.67	6	112.15	66.86	0.8	-	0.008
14.2C/14.2	3	3	0.00	0.00	6	15.90	10.38	1.3	-	0.186	3	15.78	15.78	6	2.23	2.23	0.8	+	0.574	3	15.78	15.78	6	2.23	2.23	0.8	+	0.574
62762C/50983	3	6	200.17	92.15	5	4.52	2.55	0.7	+	0.053	6	1.89	1.86	5	0.00	0.00	1.5	+	0.357	6	1.89	1.86	5	0.00	0.00	1.5	+	0.357
Habitat Means			74.91	37.93		35.57	25.97		-			6.11	6.10		38.13	23.03		+			6.11	6.10		38.13	23.03		+	
Fisher's		Power	0.148		Power-50%		0.013	P-value		0.232xy	Power	0.010		Power-50%		0.020	P-value		0.429xy	Power	0.012		Power-50%		0.012	P-value		0.429xy
Stouffer's		Power	0.043		Power-50%		0.024	P-value		0.875	Power	0.003		Power-50%		0.142	P-value		0.403	Power	0.002		Power-50%		0.168	P-value		0.403

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

Table C-3.77. Algal Biomass. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	5.33	2.42	6	1.00	0.82	0.6	+	0.120	6	2391.63	920.76	6	69.22	63.04	0.5	+	0.172	6	2391.23	920.66	6	63.14	56.98	0.5	+	0.171
14.2C/14.2	1	6	2.83	1.76	6	2.50	1.06	0.5	-	0.874	6	340.28	258.32	6	23.28	12.25	1.0	+	0.811	6	337.54	257.92	6	8.64	6.46	1.1	+	0.588
62762C/50983	1	6	4.50	1.63	6	1.17	0.60	0.4	+	0.084	6	1354.93	859.09	6	527.34	365.04	0.7	+	0.396	6	1353.52	858.22	6	527.30	365.01	0.7	+	0.397
Habitat Means			4.22	1.94		1.56	0.83		+			1362.28	679.39		206.61	146.77		+			1360.76	678.93		199.69	142.82		+	
Fisher's		Power	---		Power-50%		---	P-value		0.034	Power	0.081		Power-50%	0.091	P-value			0.127	Power	0.084		Power-50%	0.084	P-value			0.101
Stouffer's		Power	---		Power-50%		0.564	P-value		0.019	Power	0.183		Power-50%	0.217	P-value			0.109	Power	---		Power-50%	---	P-value			0.093
14.1C/14.1	2	6	9.33	2.29	6	5.83	0.95	0.2	+	0.188	6	2512.51	1147.82	6	2511.24	1073.57	0.4	-	0.999	6	2358.69	1181.66	6	2489.14	1070.18	0.5	-	0.936
14.2C/14.2	2	6	7.50	0.43	6	9.17	2.51	0.2	-	0.540	6	1631.08	397.43	6	1118.19	703.14	0.4	-	0.540	6	1365.51	474.51	6	736.14	393.13	0.4	-	0.331
62762C/50983	2	6	8.67	2.39	6	5.33	1.20	0.3	+	0.241	6	1001.63	339.78	6	2946.96	739.97	0.3	-	0.038	6	980.42	333.01	6	2884.14	703.12	0.3	-	0.034
Habitat Means			8.50	1.70		6.78	1.55		+			1715.07	628.34		2192.13	838.89		+			1568.21	663.06		2036.47	722.14		-	
Fisher's		Power	0.189		Power-50%		0.801	P-value		0.143	Power	0.016		Power-50%	0.053	P-value			0.671xy	Power	0.015		Power-50%	0.015	P-value			0.124
Stouffer's		Power	0.187		Power-50%		0.848	P-value		0.101	Power	0.030		Power-50%	0.127	P-value			0.958	Power	---		Power-50%	---	P-value			0.046
14.1C/14.1	3	6	16.00	2.13	4	12.00	1.35	0.1	+	0.201	6	1267.21	277.21	4	877.31	364.07	0.3	+	0.412	6	833.82	123.72	4	790.75	360.14	0.3	+	0.898
14.2C/14.2	3	4	14.00	1.08	6	15.33	2.44	0.1	-	0.685	4	2614.42	188.58	6	1366.24	195.74	0.1	+	0.002	4	1311.97	600.86	6	983.59	172.07	0.3	+	0.546
62762C/50983	3	6	15.00	1.91	6	12.83	2.90	0.2	-	0.547	6	1648.78	309.70	6	3203.32	875.88	0.3	-	0.125	6	1053.82	128.98	6	2436.73	825.97	0.3	-	0.296
Habitat Means			15.00	1.71		13.39	2.23		-			1843.47	258.49		1815.62	478.56		+			1066.54	284.52		1403.69	452.73		+	
Fisher's		Power	0.305		Power-50%		1.000	P-value		0.236	Power	---		Power-50%	---	P-value			0.010	Power	0.039		Power-50%	0.039	P-value			0.607 y
Stouffer's		Power	0.299		Power-50%		1.000	P-value		0.212	Power	0.203		Power-50%	0.999	P-value			0.619	Power	0.032		Power-50%	0.750	P-value			0.773

(a) 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.

		Annuals (A)								Ephemerals (AE)																	
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.40	0.25	6	6.08	6.08	1.3	-	0.514	6	0.13	0.12	6	0.18	0.18	1.0	-	0.800									
14.2C/14.2	1	6	2.74	1.33	6	14.64	7.09	0.6	-	0.658	6	0.00	0.00	6	6.97	4.47	0.9	-	0.159									
62762C/50983	1	6	1.41	1.29	6	0.03	0.03	1.3	+	0.100	6	0.31	0.30	6	0.00	0.00	1.4	+	0.357									
Habitat Means			1.51	0.96		6.92	4.40		-			0.15	0.14		2.38	1.55		-										
Fisher's		Power	0.003		Power-50%		0.187	P-value		0.538	Power	0.001		Power-50%	0.065	P-value			0.294	Power	---		Power-50%	---	P-value			
Stouffer's		Power	0.008		Power-50%		0.318	P-value		0.883	Power	0.001		Power-50%	0.257	P-value			0.643	Power	---		Power-50%	---	P-value			
14.1C/14.1	2	6	153.82	106.97	6	22.10	18.19	0.9	+	0.758	6	5.68	2.82	6	1.20	1.20	0.6	+	0.175									
14.2C/14.2	2	6	265.57	236.21	6	382.05	378.21	1.0	-	0.799	6	1.50	1.50	6	4.49	3.98	1.0	-	0.499									
62762C/50983	2	6	21.21	13.22	6	62.82	60.40	1.0	-	0.770	6	4.15	3.04	6	60.99	59.72	1.3	-	0.909									
Habitat Means			146.87	118.80		155.66	152.27		-			3.78	2.46		22.23	21.63		-										
Fisher's		Power	0.004		Power-50%		0.062	P-value		0.583	Power	0.010		Power-50%	0.073	P-value			0.604	Power	---		Power-50%	---	P-value			
Stouffer's		Power	0.013		Power-50%		0.124	P-value		0.401	Power	0.023		Power-50%	0.230	P-value			0.535	Power	---		Power-50%	---	P-value			
14.1C/14.1	3	6	433.38	280.96	4	86.56	25.43	0.9	-	0.221	6	166.60	138.64	4	23.53	23.38	1.3	+	0.088									
14.2C/14.2	3	4	1302.44	716.04	6	382.66	105.13	0.5	+	0.785	4	24.87	20.01	6	52.17	23.06	0.6	-	0.431									
62762C/50983	3	6	594.96	278.70	6	766.59	383.60	0.5	-	0.725	6	15.19	11.61	6	115.82	66.42	0.7	-	0.919									
Habitat Means			776.93	425.23		411.94	171.39		+			68.89	56.76		63.84	37.62		-										
Fisher's		Power	0.114		Power-50%		0.166	P-value		0.304	Power	0.009		Power-50%	0.067	P-value			0.580xy	Power	---		Power-50%	---	P-value			
Stouffer's		Power	0.188		Power-50%		0.231	P-value		0.458	Power	0.027		Power-50%	0.147	P-value			0.567	Power	---		Power-50%		P-value			

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

Table C-3.78. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.13	0.12	6	0.18	0.18	1.0	-	0.805	6	0.13	0.12	6	0.18	0.18	1.0	-	0.794	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
14.2C/14.2	1	6	0.00	0.00	6	6.97	4.47	0.9	-	0.143	6	0.00	0.00	6	3.02	3.02	1.4	-	0.363	6	0.00	0.00	6	2.99	2.99	1.4	-	0.363
62762C/50983	1	6	1.31	1.30	6	0.00	0.00	1.4	+	0.362	6	0.30	0.30	6	0.00	0.00	1.4	+	0.360	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.48	0.47		2.38	1.55		-			0.14	0.14		1.07	1.07		-			0.00	0.00		1.00	1.00		+	
Fisher's		Power	0.000		Power-50%		0.039	P-value		0.278	Power	0.000		Power-50%		0.002	P-value		0.463	Power	---		Power-50%		---	P-value		0.519 y
Stouffer's		Power	0.000		Power-50%		0.242	P-value		0.635	Power	0.000		Power-50%		0.014	P-value		0.693	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	2.41	1.46	6	0.37	0.37	0.8	+	0.115	6	1.45	1.12	6	0.37	0.37	0.9	-	0.381	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	1.50	1.50	6	4.56	4.05	1.0	-	0.496	6	1.50	1.50	6	4.49	3.98	1.0	-	0.499	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
62762C/50983	2	6	4.67	3.10	6	3.37	2.24	0.7	+	0.742	6	0.70	0.59	6	3.37	2.24	0.8	-	0.276	6	0.11	0.07	6	0.00	0.00	0.9	+	0.177
Habitat Means			2.86	2.02		2.77	2.22		+			1.22	1.07		2.74	2.20		-			0.04	0.02		0.00	0.00		+	
Fisher's		Power	0.018		Power-50%		0.077	P-value		0.219	Power	0.039		Power-50%		0.101	P-value		0.306	Power	0.148		Power-50%		0.148	P-value		0.140
Stouffer's		Power	0.032		Power-50%		0.207	P-value		0.289	Power	0.069		Power-50%		0.380	P-value		0.174	Power	---		Power-50%		---	P-value		0.067
14.1C/14.1	3	6	164.88	137.06	4	24.43	24.28	1.3	+	0.089	6	163.78	137.17	4	23.49	23.38	1.3	+	0.083	6	0.92	0.92	4	0.00	0.00	1.7	+	0.363
14.2C/14.2	3	4	38.27	33.28	6	55.78	28.03	0.6	-	0.700	4	24.87	20.02	6	50.49	23.34	0.6	-	0.462	4	0.00	0.00	6	0.00	0.00	1.1	+	0.391
62762C/50983	3	6	15.28	11.38	6	54.96	36.75	0.8	-	0.327	6	14.32	11.08	6	50.97	37.31	0.8	-	0.369	6	0.72	0.60	6	0.45	0.45	0.9	+	0.731
Habitat Means			72.81	60.57		45.06	29.69		-			67.66	56.09		41.65	28.01		-			0.55	0.51		0.15	0.15		+	
Fisher's		Power	0.012		Power-50%		0.062	P-value		0.444 xy	Power	0.013		Power-50%		0.063	P-value		0.380 xy	Power	0.015		Power-50%		0.015	P-value		0.192
Stouffer's		Power	0.026		Power-50%		0.147	P-value		0.301	Power	0.030		Power-50%		0.170	P-value		0.295	Power	0.124		Power-50%		0.141	P-value		0.207

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.12	0.12	6	0.18	0.18	1.0	-	0.782	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
14.2C/14.2	1	6	0.00	0.00	6	0.03	0.03	1.3	-	0.336	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.30	0.30	6	0.00	0.00	1.4	+	0.360	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.14	0.14		0.07	0.07		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		+	
Fisher's		Power	0.001		Power-50%		0.008	P-value		0.441 y	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.001		Power-50%		0.016	P-value		0.686	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	2	6	1.45	1.12	6	0.37	0.37	0.9	+	0.381	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	1.50	1.50	6	0.91	0.48	0.9	+	0.717	6	0.00	0.00	6	3.58	3.57	1.4	-	0.363	6	0.00	0.00	6	3.58	3.57	1.4	-	0.363
62762C/50983	2	6	0.05	0.05	6	3.37	2.24	0.9	-	0.107	6	0.54	0.54	6	0.00	0.00	1.4	+	0.672	6	0.54	0.54	6	0.00	0.00	1.4	-	0.672
Habitat Means			1.00	0.89		1.55	1.03		+			0.18	0.18		1.19	1.19		-			0.18	0.18		1.19	1.19		-	
Fisher's		Power	0.003		Power-50%		0.091	P-value		0.484 y	Power	0.002		Power-50%		---	P-value		0.467	Power	0.000		Power-50%		0.000	P-value		0.467
Stouffer's		Power	0.003		Power-50%		0.236	P-value		0.869	Power	0.004		Power-50%		---	P-value		0.551	Power	0.003		Power-50%		---	P-value		0.551
14.1C/14.1	3	6	70.52	46.98	4	22.92	22.81	0.9	+	0.461	6	92.33	90.60	4	0.58	0.57	1.7	+	0.329	6	84.25	82.52	4	0.38	0.37	1.7	+	0.313
14.2C/14.2	3	4	21.44	16.66	6	40.09	22.84	0.7	-	0.570	4	3.43	3.43	6	10.40	5.98	0.8	-	0.406	4	3.43	3.43	6	10.40	5.98	0.8	-	0.406
62762C/50983	3	6	1.59	0.58	6	10.90	6.53	0.7	-	0.490	6	12.02	10.76	6	39.62	31.37	0.9	-	0.425	6	12.02	10.76	6	3.13	2.24	1.0	+	0.566
Habitat Means			31.18	21.41		24.64	17.39		-			35.92	34.93		16.87	12.64		-			33.23	32.23		4.64	2.86		+	
Fisher's		Power	0.005		Power-50%		0.074	P-value		0.440 y	Power	0.007		Power-50%		0.054	P-value		0.355 y	Power	0.037		Power-50%		0.037	P-value		0.351
Stouffer's		Power	0.020		Power-50%		0.168	P-value		0.280	Power	0.009		Power-50%		0.176	P-value		0.245	Power	0.083		Power-50%		0.180	P-value		0.282

(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-3.78. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	3.95	3.95	1.4	-	0.570	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.00	1.00	6	0.00	0.00	1.4	+	0.362	6	1.00	1.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.34	0.34		1.32	1.32		+			0.33	0.33		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.004		Power-50%	0.012	P-value			0.277 y	Power	---		Power-50%	---	P-value			0.223
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.058		Power-50%	0.137	P-value			0.176	Power	---		Power-50%	---	P-value			0.138
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.96	0.77	6	0.00	0.00	1.1	-	0.270	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.07	0.07	1.3	-	0.212	6	0.00	0.00	6	0.07	0.07	1.4	-	0.706
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.81	0.68	6	0.00	0.00	1.2	+	0.287	6	0.81	0.68	6	0.00	0.00	1.2	+	0.287
Habitat Means			0.00	0.00		0.00	0.00		o			0.59	0.49		0.02	0.02		+			0.33	0.28		0.02	0.02		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.024		Power-50%	0.065	P-value			0.230	Power	0.046		Power-50%	0.046	P-value			0.226
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.075		Power-50%	0.273	P-value			0.176	Power	0.129		Power-50%	0.265	P-value			0.130
14.1C/14.1	3	6	8.08	8.08	4	0.20	0.20	1.7	+	0.985	6	1.10	1.06	4	0.93	0.89	1.0	+	0.914	6	1.10	1.06	4	0.90	0.90	1.0	+	0.896
14.2C/14.2	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	13.41	13.40	6	5.29	5.27	0.9	+	0.534	4	13.40	13.40	6	5.27	5.27	0.9	+	0.533
62762C/50983	3	6	0.00	0.00	6	36.48	31.91	1.2	-	0.305	6	0.96	0.47	6	3.99	2.08	0.6	-	0.825	6	0.55	0.38	6	3.40	2.19	0.8	-	0.660
Habitat Means			2.69	2.69		12.23	10.70		-			5.16	4.98		3.40	2.75		+			5.02	4.95		3.19	2.79		+	
Fisher's		Power	0.002		Power-50%		---	P-value		0.369	Power	0.011		Power-50%	0.060	P-value			0.509	Power	0.015		Power-50%	0.015	P-value			0.537
Stouffer's		Power	0.006		Power-50%		---	P-value		0.175	Power	0.037		Power-50%	0.162	P-value			0.498	Power	0.075		Power-50%	0.298	P-value			0.574

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha melagonium (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%	---	P-value			0.223	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.138	Power	---		Power-50%	---	P-value			0.138	Power	---		Power-50%	---	P-value			0.500
14.1C/14.1	2	6	0.29	0.29	6	0.00	0.00	1.4	+	0.363	6	0.29	0.29	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.10	0.10		0.00	0.00		-			0.10	0.10		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.082		Power-50%		---	P-value		0.192 y	Power	0.082		Power-50%	---	P-value			0.192 y	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	0.058		Power-50%		---	P-value		0.169	Power	0.057		Power-50%	---	P-value			0.169	Power	---		Power-50%	---	P-value			0.500
14.1C/14.1	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
14.2C/14.2	3	4	0.00	0.00	6	0.02	0.02	1.7	-	0.363	4	0.00	0.00	6	0.02	0.02	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.41	0.41	6	0.59	0.59	1.0	-	0.805	6	0.41	0.41	6	0.57	0.57	1.0	-	0.820	6	0.00	0.00	6	0.02	0.02	1.4	-	0.363
Habitat Means			0.14	0.14		0.20	0.20		-			0.14	0.14		0.20	0.20		-			0.00	0.00		0.01	0.01		-	
Fisher's		Power	---		Power-50%		---	P-value		0.358	Power	---		Power-50%	---	P-value			0.361	Power	---		Power-50%	---	P-value			0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.314	Power	---		Power-50%	---	P-value			0.320	Power	---		Power-50%	---	P-value			0.203

(b) Chaetomorpha melagonium not included.

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

Table C-3.78. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	3.95	3.95	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		1.32	1.32		-			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	2	6	0.51	0.50	6	0.00	0.00	1.4	+	0.362	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	3.16	3.15	6	0.00	0.00	1.4	+	0.362
Habitat Means			0.17	0.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o			1.05	1.05		0.00	0.00		+	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.402	Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.000	P-value		0.402
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.397	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.202
14.1C/14.1	3	6	0.00	0.00	4	0.03	0.03	1.0	-	0.351	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391
14.2C/14.2	3	4	0.00	0.00	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.01	0.01		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.315 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.419
Stouffer's		Power	0.000		Power-50%		---	P-value		0.209	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.403

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

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	3.16	3.15	6	0.00	0.00	1.4	+	0.362	6	0.01	0.01	6	0.00	0.00	1.4	+	0.363	6	3.15	3.15	6	0.00	0.00	1.4	-	0.363
Habitat Means			1.05	1.05		0.00	0.00		+			0.00	0.00		0.00	0.00		-			1.05	1.05		0.00	0.00		.	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.402	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.202	Power	---		Power-50%		---	P-value		0.203	Power	---		Power-50%		---	P-value		0.203
14.1C/14.1	3	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	1.1	-	0.391	6	0.00	0.00	4	0.00	0.00	-	o	1.000
14.2C/14.2	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
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		o	
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.500

Table C-3.78. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

		Enteromorpha intestinalis (AE)																							
Site Pair	MYD	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P	N	C	SE	N	Q	SE	CV	D	P
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
14.1C/14.1	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000																	
14.2C/14.2	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000																	
62762C/50983	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.79. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Alaria sp. (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	2377.90	922.02	6	62.63	56.48	0.5	+	0.171	6	2377.90	922.02	6	62.63	56.48	0.5	+	0.171	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	247.34	247.34	6	7.08	5.02	1.4	+	0.736	6	247.34	247.34	6	7.08	5.02	1.4	+	0.736	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	1323.71	838.44	6	519.62	357.98	0.7	+	0.399	6	1323.70	838.44	6	519.62	357.98	0.7	+	0.399	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1316.32	669.27		196.44	139.82		+			1316.31	669.26		196.44	139.82		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.022		Power-50%		0.018	P-value		0.119	Power	0.381		Power-50%		0.571	P-value		0.119	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.072		Power-50%		0.107	P-value		0.104	Power	0.510		Power-50%		0.668	P-value		0.104	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	2044.11	1210.02	6	2484.34	1071.83	0.5	-	0.791	6	2022.12	1215.40	6	2484.33	1071.83	0.5	-	0.781	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	1473.24	395.80	6	961.47	589.48	0.4	+	0.488	6	1473.23	395.80	6	961.22	589.44	0.4	+	0.487	6	179.37	179.37	6	316.02	316.02	1.0	-	0.715
62762C/50983	2	6	682.47	304.71	6	2920.54	741.85	0.3	-	0.019	6	682.13	304.64	6	2862.92	706.82	0.3	-	0.018	6	0.30	0.30	6	0.00	0.00	1.4	+	0.363
Habitat Means			1399.94	636.84		2122.12	801.06		-			1392.49	638.61		2102.82	789.36		-			59.89	59.89		105.34	105.34		+	
Fisher's		Power	---		Power-50%		---	P-value		0.069	Power	---		Power-50%		---	P-value		0.064	Power	0.000		Power-50%		0.000	P-value		0.460 y
Stouffer's		Power	---		Power-50%		0.241	P-value		0.022	Power	---		Power-50%		---	P-value		0.020	Power	0.000		Power-50%		---	P-value		0.233
14.1C/14.1	3	6	390.17	150.00	4	138.64	116.51	0.5	+	0.263	6	373.22	143.27	4	137.35	116.81	0.5	+	0.276	6	65.92	63.94	4	0.00	0.00	1.7	+	0.350
14.2C/14.2	3	4	619.50	347.86	6	728.03	233.79	0.4	-	0.794	4	619.43	347.90	6	724.12	233.61	0.4	-	0.801	4	343.68	341.98	6	13.58	9.75	1.0	+	0.318
62762C/50983	3	6	1025.49	200.23	6	2410.26	813.90	0.3	-	0.252	6	1023.87	200.35	6	2346.22	805.42	0.3	-	0.271	6	259.43	139.79	6	0.00	0.00	0.8	+	0.123
Habitat Means			678.39	232.70		1092.31	388.07		-			672.17	230.51		1069.23	385.28		-			223.01	181.90		4.53	3.25		-	
Fisher's		Power	0.017		Power-50%		0.097	P-value		0.393	Power	0.012		Power-50%		0.094	P-value		0.410	Power	---		Power-50%		---	P-value		0.047
Stouffer's		Power	0.018		Power-50%		0.169	P-value		0.211	Power	0.016		Power-50%		0.164	P-value		0.222	Power	---		Power-50%		---	P-value		0.025

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

		Fucus cottonii (P)								Fucus gardneri (P)								Laminaria sp. (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2377.90	922.02	6	62.63	56.48	0.5	-	0.171	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	247.33	247.33	6	7.08	5.02	1.4	+	0.736	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1323.70	838.44	6	519.62	357.98	0.7	+	0.399	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1316.31	669.26		196.44	139.82		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.380		Power-50%		0.555	P-value		0.119	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.494		Power-50%		0.649	P-value		0.104	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2022.12	1215.40	6	2484.33	1071.83	0.5	-	0.781	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1293.87	465.22	6	645.20	344.21	0.4	+	0.289	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	681.83	304.53	6	2862.92	706.82	0.3	-	0.018	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1332.61	661.72		1997.48	707.62		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.070	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.026	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	307.30	125.87	4	137.35	116.81	0.6	+	0.379	6	0.00	0.00	4	0.00	0.00	-	o	1.000
14.2C/14.2	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	275.75	259.22	6	710.54	232.72	0.5	-	0.257	4	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	764.43	207.95	6	2346.22	805.42	0.4	-	0.157	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			449.16	197.68		1064.70	384.98		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.031		Power-50%		0.046	P-value		0.142	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.79. Algal Biomass. Phaeophyta. Cook Inlet/Kenai, Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Petalonia fascia (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Analipus japonicus (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	0.403			Power	---		Power-50%	---	P-value	0.041			Power	---		Power-50%	---	P-value	0.655		
Stouffer's		Power	---		Power-50%	---	P-value	0.398			Power	---		Power-50%	---	P-value	0.030			Power	---		Power-50%	---	P-value	0.500		
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	18.28	16.10	6	0.00	0.00	1.2	+	0.100	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.25	0.20	1.1	-	0.311	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.05	0.05	6	0.00	0.00	1.3	+	0.423	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			6.11	5.38		0.09	0.07		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	0.655			Power	0.036		Power-50%	0.099	P-value	0.150			Power	---		Power-50%	---	P-value	0.655		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	0.052		Power-50%	0.311	P-value	0.181			Power	---		Power-50%	---	P-value	0.500		
14.1C/14.1	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	11.87	7.74	4	1.29	1.10	1.0	-	0.213	6	0.60	0.42	4	1.14	1.14	0.8	-	0.618
14.2C/14.2	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.08	0.08	6	2.23	2.03	1.5	-	0.405	4	0.00	0.00	6	0.07	0.07	1.7	-	0.363
62762C/50983	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.75	0.49	6	0.24	0.23	0.8	-	0.367	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			4.23	2.77		1.25	1.12		+			0.20	0.14		0.40	0.40		-	
Fisher's		Power	---		Power-50%	---	P-value	0.655			Power	0.021		Power-50%	0.049	P-value	0.216			Power	0.024		Power-50%	0.024	P-value	0.308		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	0.038		Power-50%	0.158	P-value	0.173			Power	0.038		Power-50%	0.001	P-value	0.344		

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

Site Pair	MVD	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	*Dictyosiphon sinicola (A)* N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.655		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500		
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.655		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500		
14.1C/14.1	3	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
14.2C/14.2	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.655			Power	---		Power-50%	---	P-value	0.655		
Stouffer's		Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500			Power	---		Power-50%	---	P-value	0.500		

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

Table C-3.79. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.041	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		0.637	P-value		0.030	Power	---		Power-50%		---	P-value		0.138	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	18.28	16.10	6	0.00	0.00	1.2	+	0.100	6	3.72	2.41	6	0.00	0.00	0.9	+	0.183	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.25	0.20	1.1	-	0.311	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.05	0.05	6	0.00	0.00	1.3	+	0.423	6	0.29	0.24	6	57.62	57.62	1.4	-	0.860	6	0.03	0.03	6	0.00	0.00	1.3	+	0.744
Habitat Means			6.11	5.38		0.09	0.07		+			1.34	0.88		19.21	19.21		-			0.01	0.01		0.00	0.00		+	
Fisher's		Power	0.042		Power-50%		0.102	P-value		0.150	Power	0.000		Power-50%		0.010	P-value		0.344	Power	---		Power-50%		---	P-value		0.576
Stouffer's		Power	0.051		Power-50%		0.291	P-value		0.181	Power	0.000		Power-50%		0.025	P-value		0.433	Power	---		Power-50%		---	P-value		0.383
14.1C/14.1	3	6	11.27	7.60	4	0.15	0.15	1.2	+	0.043	6	1.79	1.60	4	0.00	0.00	1.5	+	0.314	6	0.00	0.00	4	0.00	0.00	-	o	1.000
14.2C/14.2	3	4	0.08	0.08	6	2.16	2.05	1.6	-	0.669	4	0.00	0.00	6	1.68	1.24	1.3	-	0.232	4	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.75	0.49	6	0.24	0.23	0.8	-	0.367	6	0.87	0.55	6	63.81	32.70	1.2	-	0.505	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			4.03	2.72		0.85	0.81		+			0.89	0.71		21.83	17.98		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.065	Power	0.021		Power-50%		0.030	P-value		0.285	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.086		Power-50%		0.179	P-value		0.100	Power	0.009		Power-50%		0.058	P-value		0.254	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

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

Site Pair	MVD	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.138	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	3.70	2.40	6	0.00	0.00	0.9	+	0.184	6	0.02	0.02	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.26	0.25	6	57.62	57.62	1.4	-	0.817	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.32	0.88		19.21	19.21		-			0.01	0.01		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.005	P-value		0.494	Power	---		Power-50%		---	P-value		0.519	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.017	P-value		0.463	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.30	0.19	4	0.00	0.00	1.1	+	0.178	6	1.49	1.49	4	0.00	0.00	1.7	-	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
14.2C/14.2	3	4	0.00	0.00	6	1.25	1.25	1.7	-	0.363	4	0.00	0.00	6	0.43	0.43	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.87	0.54	6	11.02	9.20	1.1	-	0.869	6	0.00	0.00	6	52.79	52.41	1.4	-	0.112	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.39	0.25		4.09	3.48		-			0.50	0.50		17.74	17.61		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.003		Power-50%		0.059	P-value		0.510	Power	0.002		Power-50%		---	P-value		0.143	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		0.097	P-value		0.490	Power	---		Power-50%		---	P-value		0.073	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.79. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Site Pair		Leathesia difformis (A)							Soranthera ulvoides (A)							Morphological Group - Crustose Browns						
		N	C	SE	N	O	SE	CV D	P	N	C	SE	N	O	SE	CV D	P	N	C	SE	N	O	SE	CV D P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o 1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o 1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o 1.000
Habitat Means			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o
Fisher's		Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value 0.655
Stouffer's		Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value 0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o 1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o 1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o 1.000
Habitat Means			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o
Fisher's		Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value 0.655
Stouffer's		Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value 0.500
14.1C/14.1	3	6	0.00	0.00	4	0.00	0.00	- o	1.000	6	0.00	0.00	4	0.00	0.00	- o	1.000	6	3.30	3.30	4	0.00	0.00	1.7 + 0.363
14.2C/14.2	3	4	0.00	0.00	6	0.00	0.00	- o	1.000	4	0.00	0.00	6	0.00	0.00	- o	1.000	4	0.00	0.00	6	0.00	0.00	- o 1.000
62762C/50983	3	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o 1.000
Habitat Means			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o			1.10	1.10		0.00	0.00	·
Fisher's		Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value	0.655	Power	---		Power-50%		---	P-value 0.403
Stouffer's		Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value	0.500	Power	---		Power-50%		---	P-value 0.398

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

Site Pair		Ralfsia fungiformis (P)							
		N	C	SE	N	O	SE	CV D	P
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	- o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	- o	1.000
Habitat Means			0.00	0.00		0.00	0.00	o	
Fisher's		Power	---		Power-50%		---	P-value	0.655
Stouffer's		Power	---		Power-50%		---	P-value	0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	- o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00	- o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00	- o	1.000
Habitat Means			0.00	0.00		0.00	0.00	o	
Fisher's		Power	---		Power-50%		---	P-value	0.655
Stouffer's		Power	---		Power-50%		---	P-value	0.500
14.1C/14.1	3	6	3.30	3.30	4	0.00	0.00	1.7 +	0.363
14.2C/14.2	3	4	0.00	0.00	6	0.00	0.00	- o	1.000
62762C/50983	3	6	0.00	0.00	6	0.00	0.00	- o	1.000
Habitat Means			1.10	1.10		0.00	0.00	·	
Fisher's		Power	---		Power-50%		---	P-value	0.403
Stouffer's		Power	---		Power-50%		---	P-value	0.398

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

Table C-3.80. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	13.59	13.39	6	6.40	6.40	1.1	+	0.639	6	0.13	0.08	6	0.50	0.50	1.1	-	0.434	6	0.12	0.08	6	0.50	0.50	1.2	-	0.474
14.2C/14.2	1	6	92.94	72.36	6	9.22	8.33	1.0	+	0.626	6	4.76	3.32	6	1.69	1.08	0.8	-	0.399	6	2.90	2.90	6	0.95	0.95	1.1	-	0.537
62762C/50983	1	6	29.92	26.71	6	7.72	7.72	1.0	+	0.443	6	0.14	0.13	6	7.58	7.58	1.4	-	0.971	6	0.13	0.13	6	7.55	7.55	1.4	-	0.804
Habitat Means			45.48	37.49		7.78	7.48		+			1.68	1.18		3.26	3.05		-			1.05	1.04		3.00	3.00		-	
Fisher's		Power	0.119		Power-50%		0.135	P-value		0.267	Power	0.009		Power-50%		0.189	P-value		0.551	Power	0.009		Power-50%		0.009	P-value		0.562
Stouffer's		Power	0.258		Power-50%		0.280	P-value		0.165	Power	0.040		Power-50%		0.413	P-value		0.494	Power	0.052		Power-50%		0.175	P-value		0.399
14.1C/14.1	2	6	465.99	290.10	6	26.54	17.91	0.8	+	0.918	6	44.56	41.51	6	3.58	1.84	1.2	+	0.693	6	19.12	16.38	6	3.42	1.88	1.0	-	0.685
14.2C/14.2	2	6	156.34	54.06	6	152.16	115.28	0.6	+	0.975	6	86.09	55.85	6	18.51	8.36	0.8	+	0.154	6	8.23	4.69	6	13.17	7.31	0.6	-	0.582
62762C/50983	2	6	314.49	213.50	6	23.04	18.68	0.9	+	0.512	6	4.58	2.97	6	3.66	1.72	0.6	+	0.794	6	1.59	1.36	6	3.15	1.60	0.6	-	0.473
Habitat Means			312.27	185.88		67.25	50.62		+			45.07	33.44		8.58	3.97		+			9.65	7.48		6.58	3.60		-	
Fisher's		Power	0.279		Power-50%		0.095	P-value		0.455	Power	0.056		Power-50%		0.087	P-value		0.169	Power	0.060		Power-50%		0.060	P-value		0.402 y
Stouffer's		Power	0.395		Power-50%		0.171	P-value		0.262	Power	0.083		Power-50%		0.184	P-value		0.224	Power	0.104		Power-50%		0.248	P-value		0.243
14.1C/14.1	3	6	712.15	214.20	4	714.24	343.26	0.4	-	0.996	6	131.42	66.44	4	146.08	82.09	0.5	-	0.893	6	100.17	59.92	4	138.09	80.39	0.6	-	0.710
14.2C/14.2	3	4	1956.64	409.94	6	582.43	198.41	0.2	+	0.010	4	1232.06	484.67	6	288.91	154.90	0.4	+	0.059	4	335.06	194.33	6	99.67	60.68	0.5	+	0.207
62762C/50983	3	6	608.01	213.04	6	738.10	342.01	0.4	-	0.753	6	181.62	93.77	6	635.88	338.08	0.6	-	0.225	6	15.52	7.17	6	68.35	24.33	0.4	-	0.064
Habitat Means			1092.27	279.06		678.26	294.56		-			515.03	214.96		356.95	191.69		-			150.25	87.14		102.04	55.13		-	
Fisher's		Power	0.003		Power-50%		0.470	P-value		0.763 xy	Power	0.010		Power-50%		0.182	P-value		0.418 xy	Power	0.017		Power-50%		0.017	P-value		0.264 y
Stouffer's		Power	0.002		Power-50%		0.538	P-value		0.673	Power	0.016		Power-50%		0.236	P-value		0.270	Power	---		Power-50%		---	P-value		0.075

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

		Total Palmaria (A)								Palmaria spp. (A)								Palmaria callophylloides (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.03	0.03	1.3	-	0.744	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.03	0.03	1.3	-	0.744
Habitat Means			0.00	0.00		0.01	0.01		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.01	0.01		-	
Fisher's		Power	0.060		Power-50%		0.138	P-value		0.303 y	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.576
Stouffer's		Power	0.050		Power-50%		0.141	P-value		0.465	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.383
14.1C/14.1	2	6	25.07	24.83	6	0.00	0.00	1.4	+	0.264	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	24.87	24.87	6	0.00	0.00	1.4	-	0.363
14.2C/14.2	2	6	1.29	1.15	6	4.44	4.37	1.1	-	0.502	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.28	1.15	6	0.05	0.05	1.2	-	0.859
62762C/50983	2	6	1.83	1.73	6	0.27	0.27	1.2	+	0.339	6	0.00	0.00	6	0.00	0.00	0.8	-	0.549	6	0.23	0.15	6	0.27	0.27	0.9	-	0.893
Habitat Means			9.39	9.23		1.57	1.55		+			0.00	0.00		0.00	0.00		-			8.79	8.72		0.11	0.11		.	
Fisher's		Power	0.062		Power-50%		0.111	P-value		0.226	Power	0.005		Power-50%		0.014	P-value		0.489	Power	0.086		Power-50%		0.086	P-value		0.392
Stouffer's		Power	0.208		Power-50%		0.380	P-value		0.158	Power	0.006		Power-50%		0.014	P-value		0.614	Power	0.226		Power-50%		0.319	P-value		0.426
14.1C/14.1	3	6	5.36	3.59	4	0.00	0.00	1.2	-	0.196	6	0.01	0.01	4	0.00	0.00	1.7	+	0.363	6	1.38	1.21	4	0.00	0.00	1.5	+	0.306
14.2C/14.2	3	4	876.09	541.47	6	56.64	19.35	0.6	-	0.893	4	0.00	0.00	6	0.10	0.10	1.7	-	0.355	4	205.75	205.75	6	28.95	18.33	1.0	+	0.907
62762C/50983	3	6	133.95	90.44	6	557.84	329.01	0.7	-	0.243	6	1.95	1.89	6	6.15	6.15	1.1	-	0.529	6	94.77	87.27	6	118.99	74.51	0.8	-	0.837
Habitat Means			338.47	211.83		204.83	116.12		+			0.63	0.63		2.08	2.08		-			100.63	98.08		49.31	30.95		+	
Fisher's		Power	0.129		Power-50%		0.110	P-value		0.367	Power	0.001		Power-50%		0.002	P-value		0.367	Power	0.025		Power-50%		0.025	P-value		0.377
Stouffer's		Power	0.230		Power-50%		0.186	P-value		0.746	Power	0.001		Power-50%		0.003	P-value		0.281	Power	0.095		Power-50%		0.259	P-value		0.445

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

Table C-3.80. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		·	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.398	Power	---		Power-50%		---	P-value		0.203
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.20	0.20	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.12	0.12	1.4	-	0.363
14.2C/14.2	2	6	0.00	0.00	6	4.38	4.38	1.4	-	0.568	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175
62762C/50983	2	6	1.60	1.60	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.43	0.43	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.53	0.53		1.46	1.46		+			0.07	0.07		0.00	0.00		+			0.14	0.14		0.04	0.04		-	
Fisher's		Power	---		Power-50%		---	P-value		0.278 y	Power	---		Power-50%		---	P-value		0.403	Power	0.088		Power-50%		0.088	P-value		0.192 y
Stouffer's		Power	---		Power-50%		---	P-value		0.177	Power	---		Power-50%		---	P-value		0.398	Power	0.059		Power-50%		---	P-value		0.574
14.1C/14.1	3	6	3.73	3.46	4	0.00	0.00	1.6	+	0.330	6	0.23	0.23	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	0.00	0.00	-	o	1.000
14.2C/14.2	3	4	305.29	289.06	6	21.51	12.63	1.0	+	0.968	4	365.05	365.05	6	6.08	6.08	1.1	+	0.649	4	0.00	0.00	6	8.78	5.67	1.1	-	0.404
62762C/50983	3	6	37.23	28.78	6	432.70	260.90	0.8	-	0.447	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.05	0.05	6	1.47	0.99	0.9	-	0.413
Habitat Means			115.42	107.10		151.40	91.18		+			121.76	121.76		2.03	2.03		·			0.02	0.02		3.42	2.22		-	
Fisher's		Power	0.040		Power-50%		0.228	P-value		0.474 y	Power	---		Power-50%		---	P-value		0.316	Power	0.229		Power-50%		0.229	P-value		0.258
Stouffer's		Power	0.071		Power-50%		0.411	P-value		0.658	Power	---		Power-50%		---	P-value		0.349	Power	0.321		Power-50%		---	P-value		0.162

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

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	13.25	13.19	6	5.90	5.90	1.1	+	0.622
14.2C/14.2	1	6	1.86	0.85	6	0.74	0.73	0.6	-	0.339	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	88.18	71.79	6	7.54	7.49	1.1	-	0.533
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	29.78	26.74	6	0.14	0.14	1.3	-	0.070
Habitat Means			0.62	0.28		0.25	0.24		·			0.00	0.00		0.00	0.00		o			43.73	37.24		4.52	4.51		-	
Fisher's		Power	0.023		Power-50%		0.379	P-value		0.133	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.069
Stouffer's		Power	0.049		Power-50%		0.459	P-value		0.255	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.024
14.1C/14.1	2	6	0.37	0.37	6	0.04	0.03	1.3	+	0.867	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	326.42	262.78	6	22.91	18.29	1.1	+	0.775
14.2C/14.2	2	6	76.57	57.66	6	0.63	0.30	1.1	+	0.030	6	0.00	0.00	6	0.27	0.27	1.4	-	0.363	6	70.25	24.43	6	82.35	61.86	0.6	-	0.859
62762C/50983	2	6	0.69	0.44	6	0.00	0.00	0.9	+	0.176	6	0.04	0.03	6	0.24	0.23	1.2	-	0.933	6	297.38	208.28	6	18.52	18.14	0.9	+	0.094
Habitat Means			25.88	19.49		0.22	0.11		+			0.01	0.01		0.17	0.17		-			231.35	165.17		41.26	32.76		+	
Fisher's		Power	---		Power-50%		---	P-value		0.021	Power	0.017		Power-50%		0.001	P-value		0.214	Power	0.260		Power-50%		0.260	P-value		0.167
Stouffer's		Power	---		Power-50%		0.323	P-value		0.028	Power	0.117		Power-50%		0.000	P-value		0.276	Power	---		Power-50%		---	P-value		0.059
14.1C/14.1	3	6	0.19	0.18	4	7.99	7.99	1.1	-	0.797	6	25.70	22.17	4	0.00	0.00	1.5	+	0.033	6	479.47	201.55	4	536.28	277.57	0.5	-	0.869
14.2C/14.2	3	4	9.33	5.40	6	0.00	0.00	0.6	+	0.001	4	11.58	11.57	6	123.82	102.63	1.3	-	0.448	4	657.01	629.47	6	225.40	78.71	0.8	+	0.908
62762C/50983	3	6	0.02	0.02	6	0.97	0.97	1.4	-	0.441	6	32.08	28.43	6	7.25	7.19	1.1	-	0.452	6	313.42	143.55	6	41.10	20.86	0.6	+	0.121
Habitat Means			3.18	1.87		2.99	2.99		-			23.12	20.72		43.69	36.61		-			483.30	324.86		267.59	125.71		+	
Fisher's		Power	0.001		Power-50%		0.270	P-value		0.562xy	Power	---		Power-50%		---	P-value		0.069 y	Power	0.092		Power-50%		0.092	P-value		0.215
Stouffer's		Power	0.000		Power-50%		0.470	P-value		0.575	Power	0.026		Power-50%		0.134	P-value		0.140	Power	---		Power-50%		---	P-value		0.080

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

Table C-3.80. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Dumontia contorta (AE) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.04	0.03	6	0.00	0.00	1.3	+	0.316	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	87.27	71.97	6	0.60	0.60	1.2	-	0.354
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.52	2.30	6	0.14	0.14	1.2	-	0.242
Habitat Means			0.01	0.01		0.00	0.00		+			0.00	0.00		0.00	0.00		o			29.93	24.76		0.25	0.25		-	
Fisher's		Power	0.018		Power-50%		0.011	P-value		0.204	Power	---		Power-50%		---	P-value		0.655	Power	0.113		Power-50%		0.113	P-value		0.169
Stouffer's		Power	0.036		Power-50%		0.018	P-value		0.132	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.091
14.1C/14.1	2	6	8.69	6.74	6	0.00	0.00	1.1	+	0.254	6	0.00	0.00	6	0.83	0.83	1.4	-	0.363	6	1.50	1.50	6	0.35	0.23	1.2	+	0.668
14.2C/14.2	2	6	0.00	0.00	6	3.77	3.77	1.4	-	0.583	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	63.39	24.22	6	17.83	15.56	0.5	-	0.145
62762C/50983	2	6	0.37	0.29	6	0.00	0.00	1.1	-	0.260	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	18.07	17.97	1.4	-	0.277
Habitat Means			3.02	2.34		1.26	1.26		+			0.00	0.00		0.28	0.28		-			21.63	8.58		12.08	12.25		+	
Fisher's		Power	0.054		Power-50%		0.164	P-value		0.179	Power	---		Power-50%		---	P-value		0.403	Power	0.010		Power-50%		0.010	P-value		0.257
Stouffer's		Power	0.163		Power-50%		0.360	P-value		0.115	Power	---		Power-50%		---	P-value		0.398	Power	0.016		Power-50%		0.313	P-value		0.676
14.1C/14.1	3	6	58.13	28.73	4	11.53	3.73	0.7	+	0.299	6	1.03	1.03	4	0.00	0.00	1.7	+	0.363	6	0.00	0.00	4	16.65	16.12	1.1	-	0.378
14.2C/14.2	3	4	9.08	9.07	6	49.00	30.53	0.9	-	0.334	4	0.00	0.00	6	0.00	0.00	1.7	-	0.363	4	6.08	5.84	6	0.01	0.00	1.1	+	0.130
62762C/50983	3	6	39.55	24.53	6	12.93	11.18	0.7	+	0.347	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.58	1.58	6	0.05	0.05	1.4	+	0.937
Habitat Means			35.58	20.78		24.49	15.14		+			0.34	0.34		0.00	0.00		+			2.55	2.48		5.57	5.39		+	
Fisher's		Power	0.004		Power-50%		0.042	P-value		0.263	Power	---		Power-50%		---	P-value		0.519	Power	0.020		Power-50%		0.020	P-value		0.285 y
Stouffer's		Power	0.010		Power-50%		0.139	P-value		0.189	Power	---		Power-50%		---	P-value		0.500	Power	0.003		Power-50%		0.011	P-value		0.400

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

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Microcladia borealis (A) N	C	SE	N	O	SE	CV	D	P	Nemalion helminthoides (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	5.90	5.90	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.87	0.75	6	6.93	6.89	1.3	-	0.759	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	0.09	0.08	6	0.00	0.00	1.4	+	0.353	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.32	0.28		4.28	4.26		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.016	P-value		0.453	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.033	P-value		0.693	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	0.28	0.28	6	20.69	18.38	1.2	-	0.004	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	6.84	4.03	6	0.80	0.45	0.8	+	0.093	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	0.00	0.00	6	0.45	0.28	0.9	-	0.173	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.37	1.44		7.31	6.37		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.009x	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		0.027	P-value		0.057	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	0.00	0.00	4	8.32	6.51	0.9	-	0.291	6	0.00	0.00	4	2.25	2.25	1.1	-	0.622	6	0.00	0.00	4	0.00	0.00	-	o	1.000
14.2C/14.2	3	4	0.61	0.38	6	0.01	0.00	0.7	+	0.024	4	0.45	0.45	6	3.99	3.03	1.2	-	0.525	4	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	6	0.00	0.00	6	6.01	6.00	1.4	-	0.105	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.20	0.13		4.78	4.17		-			0.15	0.15		2.08	1.76		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.034		Power-50%		0.041	P-value		0.134x	Power	0.011		Power-50%		0.017	P-value		0.380	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.045		Power-50%		0.049	P-value		0.127	Power	0.019		Power-50%		0.029	P-value		0.374	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.80. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.82	0.82	6	0.00	0.00	1.4	+	0.361	6	0.82	0.82	6	0.00	0.00	1.4	+	0.361	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	27.17	27.17	6	0.00	0.00	1.4	+	0.363	6	27.17	27.17	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			9.33	9.33		0.00	0.00		+			9.33	9.33		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.001	P-value		0.222	Power	0.001		Power-50%		0.000	P-value		0.222	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.003		Power-50%		0.005	P-value		0.137	Power	0.005		Power-50%		0.003	P-value		0.137	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	101.12	63.43	6	1.03	0.99	0.9	+	0.314	6	101.12	63.43	6	1.03	0.99	0.9	+	0.314	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.08	0.08	1.4	-	0.363	6	0.00	0.00	6	0.08	0.08	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	6	207.19	206.97	6	0.00	0.00	1.4	+	0.263	6	207.19	206.97	6	0.00	0.00	1.4	+	0.263	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			102.77	90.13		0.37	0.36		+			102.77	90.13		0.37	0.36		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.008		Power-50%		0.004	P-value		0.227	Power	0.011		Power-50%		0.005	P-value		0.227	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.012		Power-50%		0.015	P-value		0.146	Power	0.014		Power-50%		0.018	P-value		0.146	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	46.15	24.73	4	75.48	57.33	0.6	-	0.608	6	41.45	25.83	4	75.48	57.33	0.7	-	0.558	6	4.70	4.70	4	0.00	0.00	1.7	+	0.363
14.2C/14.2	3	4	0.00	0.00	6	4.37	2.30	0.9	-	0.210	4	0.00	0.00	6	0.60	0.45	1.3	-	0.468	4	0.00	0.00	6	3.77	2.23	1.0	-	0.152
62762C/50983	3	6	103.63	99.70	6	0.60	0.60	1.4	+	0.228	6	103.63	99.70	6	0.60	0.60	1.4	+	0.228	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			49.93	41.48		26.82	20.08		-			48.36	41.85		25.56	19.46		-			1.57	1.57		1.26	0.74		-	
Fisher's		Power	0.017		Power-50%		0.059	P-value		0.309 y	Power	0.016		Power-50%		0.046	P-value		0.458 y	Power	0.004		Power-50%		0.004	P-value		0.326 y
Stouffer's		Power	0.023		Power-50%		0.194	P-value		0.726	Power	0.023		Power-50%		0.147	P-value		0.767	Power	0.000		Power-50%		---	P-value		0.441

(b) Neorhodomela larix not included.

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

Site Pair	MVD	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	0.04	0.03	6	0.00	0.00	1.3	-	0.338	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.01	0.00	6	0.00	0.00	0.7	+	0.102
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175									
Habitat Means			0.01	0.01		0.00	0.00		-			4.13	4.13		0.00	0.00		-			0.08	0.07		0.00	0.00		+	
Fisher's		Power	0.002		Power-50%		0.003	P-value		0.213	Power	---		Power-50%		---	P-value		0.069	Power	---		Power-50%		---	P-value		0.096
Stouffer's		Power	0.007		Power-50%		0.007	P-value		0.297	Power	---		Power-50%		---	P-value		0.039	Power	---		Power-50%		---	P-value		0.039
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	214.83	195.21	6	0.00	0.00	1.3	-	0.004	6	30.63	26.86	6	0.05	0.05	1.2	+	0.061
14.2C/14.2	2	6	0.02	0.02	6	16.74	16.74	1.4	-	0.886	6	0.00	0.00	6	43.12	43.12	1.4	-	0.357	6	0.00	0.00	6	48.70	48.70	1.4	-	0.356
62762C/50983	2	6	5.83	5.83	6	0.00	0.00	1.4	-	0.363	6	83.99	83.64	6	0.00	0.00	1.4	-	0.361	6	2.70	2.09	6	0.00	0.00	1.1	+	0.253
Habitat Means			1.95	1.95		5.58	5.58		+			99.60	92.95		14.38	14.37		+			11.11	9.65		16.25	16.25		+	
Fisher's		Power	0.179		Power-50%		0.292	P-value		0.149 y	Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.074
Stouffer's		Power	0.243		Power-50%		0.437	P-value		0.119	Power	---		Power-50%		---	P-value		0.082	Power	---		Power-50%		---	P-value		0.094
14.1C/14.1	3	6	48.39	34.40	4	1.51	1.50	1.2	+	0.761	6	325.78	172.29	4	420.54	238.84	0.5	-	0.749	6	91.35	31.63	4	31.20	24.73	0.5	+	0.210
14.2C/14.2	3	4	639.01	634.84	6	89.31	57.50	1.0	+	0.741	4	1.78	1.77	6	78.73	37.90	0.8	-	0.349	4	8.40	8.33	6	58.40	45.56	1.2	-	0.409
62762C/50983	3	6	19.50	18.39	6	21.51	14.61	0.8	-	0.934	6	149.15	98.11	6	0.00	0.00	0.9	-	0.000	6	97.55	68.98	6	1.44	0.94	1.0	+	0.004
Habitat Means			235.63	229.21		37.44	24.54		+			158.90	90.73		166.42	92.25		-			65.77	36.31		30.35	23.74		+	
Fisher's		Power	0.017		Power-50%		0.039	P-value		0.521	Power	0.001		Power-50%		0.133	P-value		0.487x	Power	---		Power-50%		---	P-value		0.009
Stouffer's		Power	0.064		Power-50%		0.135	P-value		0.458	Power	0.000		Power-50%		0.252	P-value		0.999	Power	---		Power-50%		---	P-value		0.003

Table C-3.80. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Antithamnion/Antithamnionella (A) (b) N	C	SE	N	O	SE	CV	D	P	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.04	0.04	6	0.00	0.00	1.4	+	0.363
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62762C/50983	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.01	0.01		0.00	0.00		·	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.403
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.398
14.1C/14.1	3	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	2.37	1.40	4	0.00	0.00	1.0	+	0.150
14.2C/14.2	3	4	0.00	0.00	6	0.00	0.00		- o	1.000	4	0.00	0.00	6	0.00	0.00	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00		- o	1.000
62762C/50983	3	6	0.96	0.96	6	0.00	0.00	1.4	·	0.363	6	0.00	0.00	6	1.04	0.66	0.9	-	0.177	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.32	0.32		0.00	0.00		-			0.00	0.00		0.35	0.22		-			0.79	0.47		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---		P-value	0.403	Power	0.148		Power-50%		---		P-value	0.141	Power	0.001		Power-50%		0.001		P-value	0.242
Stouffer's		Power	---		Power-50%		---		P-value	0.203	Power	---		Power-50%		---		P-value	0.068	Power	0.000		Power-50%		0.000		P-value	0.341

(b) Genera not separated.

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

Site Pair	MVD	Ceramium sp. (A) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Scagelia/Hollenbergia (P) (b) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.22	0.22	6	0.00	0.00	1.4	+	0.359	6	0.00	0.00	6	0.00	0.00		- o	1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.01	0.00	6	0.00	0.00	0.7	-	0.102	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.08	0.07		0.00	0.00		·			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.096	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.039	Power	---		Power-50%		---		P-value	0.500
14.1C/14.1	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	30.59	26.83	6	0.05	0.05	1.2	+	0.061	6	0.00	0.00	6	0.00	0.00		- o	1.000
14.2C/14.2	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	48.70	48.70	1.4	-	0.356	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
62762C/50983	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	2.70	2.09	6	0.00	0.00	1.1	+	0.253	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			11.10	9.64		16.25	16.25		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.074 y	Power	---		Power-50%		---		P-value	0.403
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.094	Power	---		Power-50%		---		P-value	0.398
14.1C/14.1	3	6	0.33	0.33	4	0.00	0.00	1.7	+	0.363	6	87.73	30.22	4	31.20	24.73	0.5	+	0.221	6	0.92	0.92	4	0.00	0.00	1.7	+	0.363
14.2C/14.2	3	4	0.00	0.00	6	0.00	0.00		- o	1.000	4	8.40	8.33	6	58.39	45.56	1.2	-	0.409	4	0.00	0.00	6	0.00	0.00	1.7	-	0.363
62762C/50983	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	96.59	68.04	6	0.40	0.30	1.0	+	0.001	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.11	0.11		0.00	0.00		+			64.24	35.53		30.00	23.53		+			0.31	0.31		0.00	0.00		·	
Fisher's		Power	---		Power-50%		---		P-value	0.403	Power	---		Power-50%		---		P-value	0.003	Power	---		Power-50%		---		P-value	0.519
Stouffer's		Power	---		Power-50%		---		P-value	0.398	Power	---		Power-50%		---		P-value	0.001	Power	---		Power-50%		---		P-value	0.500

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

Table C-3.80. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion spp. (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363									
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+		6	0.00	0.00	6	0.00	0.00		-	o 1.000
Fisher's		Power	---		Power-50%		---		P-value	0.403	Power	---		Power-50%		---		P-value	0.403									
Stouffer's		Power	---		Power-50%		---		P-value	0.203	Power	---		Power-50%		---		P-value	0.203	Power	---		Power-50%		---		P-value	0.655
																				Power	---		Power-50%		---		P-value	0.500
14.1C/14.1	2	6	64.38	64.34	6	0.00	0.00	1.4	+	0.174	6	64.38	64.34	6	0.00	0.00	1.4	+	0.174	6	0.00	0.00	6	0.00	0.00		-	o 1.000
14.2C/14.2	2	6	0.00	0.00	6	2.60	1.70	0.9	-	0.187	6	0.00	0.00	6	2.60	1.70	0.9	-	0.187	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62762C/50983	2	6	9.84	9.54	6	0.87	0.87	1.3	+	0.491	6	9.84	9.54	6	0.87	0.87	1.3	+	0.491	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			24.74	24.63		1.16	0.86		+			24.74	24.63		1.16	0.86		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.003		P-value	0.247	Power	0.001		Power-50%		0.002		P-value	0.247	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	0.000		Power-50%		0.004		P-value	0.261	Power	0.001		Power-50%		0.008		P-value	0.261	Power	---		Power-50%		---		P-value	0.500
14.1C/14.1	3	6	8.69	4.99	4	0.68	0.67	0.9	+	0.109	6	8.69	4.99	4	0.68	0.67	0.9	+	0.109	6	0.00	0.00	4	0.00	0.00		-	o 1.000
14.2C/14.2	3	4	4.88	2.83	6	8.82	5.65	0.7	-	0.609	4	4.88	2.83	6	8.82	5.65	0.7	-	0.609	4	0.00	0.00	6	0.00	0.00		-	o 1.000
62762C/50983	3	6	15.43	3.06	6	59.69	28.19	0.5	-	0.349	6	15.43	3.06	6	59.69	28.19	0.5	-	0.349	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			9.67	3.63		23.06	11.50		-			9.67	3.63		23.06	11.50		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.009		Power-50%		0.677		P-value	0.425	Power	0.008		Power-50%		0.678		P-value	0.425	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	0.002		Power-50%		0.725		P-value	0.293	Power	0.001		Power-50%		0.718		P-value	0.293	Power	---		Power-50%		---		P-value	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.
z Only one site pair.

Site Pair	MVD	Halosaccion glandiformis (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Calcified Reds N	C	SE	N	O	SE	CV	D	P	Articulate Coralline Algae (A) N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
14.2C/14.2	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62762C/50983	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000									
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o		6	0.00	0.00	6	0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.403	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	---		Power-50%		---		P-value	0.203	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
14.1C/14.1	2	6	64.38	64.34	6	0.00	0.00	1.4	+	0.174	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
14.2C/14.2	2	6	0.00	0.00	6	2.60	1.70	0.9	-	0.187	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
62762C/50983	2	6	9.84	9.54	6	0.87	0.87	1.3	+	0.491	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			24.74	24.63		1.16	0.86		+			0.00	0.00		0.00	0.00		.			0.00	0.00		0.00	0.00		+	
Fisher's		Power	0.001		Power-50%		0.004		P-value	0.247	Power	---		Power-50%		---		P-value	0.223	Power	---		Power-50%		---		P-value	0.223
Stouffer's		Power	0.001		Power-50%		0.006		P-value	0.261	Power	---		Power-50%		---		P-value	0.302	Power	---		Power-50%		---		P-value	0.302
14.1C/14.1	3	6	8.69	4.99	4	0.68	0.67	0.9	+	0.109	6	1.22	1.22	4	0.00	0.00	1.7	+	0.363	6	1.22	1.22	4	0.00	0.00	1.7	+	0.363
14.2C/14.2	3	4	4.88	2.83	6	8.82	5.65	0.7	-	0.609	4	54.29	54.29	6	0.90	0.64	1.1	+	0.686	4	54.29	54.29	6	0.90	0.64	1.1	-	0.686
62762C/50983	3	6	15.43	3.06	6	59.69	28.19	0.5	-	0.349	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			9.67	3.63		23.06	11.50		-			18.50	18.50		0.30	0.21		+			18.50	18.50		0.30	0.21		-	
Fisher's		Power	0.008		Power-50%		0.653		P-value	0.425	Power	0.002		Power-50%		0.002		P-value	0.327	Power	0.003		Power-50%		0.003		P-value	0.327
Stouffer's		Power	0.001		Power-50%		0.705		P-value	0.293	Power	0.004		Power-50%		0.003		P-value	0.354	Power	0.005		Power-50%		0.007		P-value	0.354

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

Table C-3.81. Algal Biomass. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) 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.

		Annuals (A)								Ephemerals (AE)																
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
51091C/51091	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
62802C/50226	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
51091C/51091	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
62802C/50226	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
51091C/51091	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

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

Table C-3.82. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Monostroma/Ulvaria (AE) (b)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

(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.

		Total Ulva (AE)								Ulva spp. (AE)								Ulva fenestrata (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's	Power	---		Power-50%		---	P-value	---			Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

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

Table C-3.82. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens N	C	SE	Acrosiphonia sp. (A) N	C	SE	Total Chaetomorpha/Rhizoclonium (A) N	C	SE
50389C/50389	1	0	--	--	0	--	--	0	--	--
51091C/51091	1	0	--	--	0	--	--	0	--	--
62802C/50226	1	0	--	--	0	--	--	0	--	--
Habitat Means			--	--		--	--		--	--
Fisher's		Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---
Stouffer's		Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---
50389C/50389	2	0	--	--	0	--	--	0	--	--
51091C/51091	2	0	--	--	0	--	--	0	--	--
62802C/50226	2	0	--	--	0	--	--	0	--	--
Habitat Means			--	--		--	--		--	--
Fisher's		Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---
Stouffer's		Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---
50389C/50389	3	0	--	--	0	--	--	0	--	--
51091C/51091	3	0	--	--	0	--	--	0	--	--
62802C/50226	3	0	--	--	0	--	--	0	--	--
Habitat Means			--	--		--	--		--	--
Fisher's		Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---

Site Pair	MVD	O	SE	CV	D	P
50389C/50389	1	--	--	-		---
51091C/51091	1	0.00	0.00	-		---
62802C/50226	1	0.00	0.00	-		---
Habitat Means		0.00	0.00			
Fisher's						
Stouffer's						
50389C/50389	2	--	--	-		---
51091C/51091	2	0.00	0.00	-		---
62802C/50226	2	0.00	0.00	-		---
Habitat Means		0.00	0.00			
Fisher's						
Stouffer's						
50389C/50389	3	--	--	-		---
51091C/51091	3	0.00	0.00	-		---
62802C/50226	3	--	--	-		---
Habitat Means		0.00	0.00			
Fisher's						

Site Pair	MVD	O	SE	CV	D	P
50389C/50389	1	--	--	-		---
51091C/51091	1	0.00	0.00	-		---
62802C/50226	1	0.00	0.00	-		---
Habitat Means		0.00	0.00			
Fisher's						
Stouffer's						
50389C/50389	2	--	--	-		---
51091C/51091	2	0.00	0.00	-		---
62802C/50226	2	0.00	0.00	-		---
Habitat Means		0.00	0.00			
Fisher's						
Stouffer's						
50389C/50389	3	--	--	-		---
51091C/51091	3	0.00	0.00	-		---
62802C/50226	3	--	--	-		---
Habitat Means		0.00	0.00			
Fisher's						

Site Pair	MVD	O	SE	CV	D	P
50389C/50389	1	--	--	-		---
51091C/51091	1	0.00	0.00	-		---
62802C/50226	1	0.00	0.00	-		---
Habitat Means		0.00	0.00			
Fisher's						
Stouffer's						
50389C/50389	2	--	--	-		---
51091C/51091	2	0.00	0.00	-		---
62802C/50226	2	0.00	0.00	-		---
Habitat Means		0.00	0.00			
Fisher's						
Stouffer's						
50389C/50389	3	--	--	-		---
51091C/51091	3	0.00	0.00	-		---
62802C/50226	3	--	--	-		---
Habitat Means		0.00	0.00			
Fisher'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.

Site Pair	MVD	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	Cladophora sp. (AE) N	C	SE	Morphological Group - Tubular and Saccate Greens N	C	SE
50389C/50389	1	0	--	--	0	--	--	0	--	--
51091C/51091	1	0	--	--	0	--	--	0	--	--
62802C/50226	1	0	--	--	0	--	--	0	--	--
Habitat Means			--	--		--	--		--	--
Fisher's		Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---
Stouffer's		Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---
50389C/50389	2	0	--	--	0	--	--	0	--	--
51091C/51091	2	0	--	--	0	--	--	0	--	--
62802C/50226	2	0	--	--	0	--	--	0	--	--
Habitat Means			--	--		--	--		--	--
Fisher's		Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---
Stouffer's		Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---
50389C/50389	3	0	--	--	0	--	--	0	--	--
51091C/51091	3	0	--	--	0	--	--	0	--	--
62802C/50226	3	0	--	--	0	--	--	0	--	--
Habitat Means			--	--		--	--		--	--
Fisher's		Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---	Power ---		Power-50% --- P-value ---

Site Pair	MVD	O	SE	CV	D	P
50389C/50389	1	--	--	-		---
51091C/51091	1	0.00	0.00	-		---
62802C/50226	1	0.00	0.00	-		---
Habitat Means		0.00	0.00			
Fisher's						
Stouffer's						
50389C/50389	2	--	--	-		---
51091C/51091	2	0.00	0.00	-		---
62802C/50226	2	0.00	0.00	-		---
Habitat Means		0.00	0.00			
Fisher's						
Stouffer's						
50389C/50389	3	--	--	-		---
51091C/51091	3	0.00	0.00	-		---
62802C/50226	3	--	--	-		---
Habitat Means		0.00	0.00			
Fisher's						

Site Pair	MVD	O	SE	CV	D	P
50389C/50389	1	--	--	-		---
51091C/51091	1	0.00	0.00	-		---
62802C/50226	1	0.00	0.00	-		---
Habitat Means		0.00	0.00			
Fisher's						
Stouffer's						
50389C/50389	2	--	--	-		---
51091C/51091	2	0.00	0.00	-		---
62802C/50226	2	0.00	0.00	-		---
Habitat Means		0.00	0.00			
Fisher's						
Stouffer's						
50389C/50389	3	--	--	-		---
51091C/51091	3	0.00	0.00	-		---
62802C/50226	3	--	--	-		---
Habitat Means		0.00	0.00			
Fisher's						

(b) Chaetomorpha melagonium not included.

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

Table C-3.82. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P
5389C/50389	1	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
5091C/51091	1	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
6802C/50226	1	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
5389C/50389	2	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
5091C/51091	2	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
6802C/50226	2	0	--	--	2	0.00	0.00	-	---		0	--	--	2	0.00	0.00	-	---		0	--	--	2	0.00	0.00	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
5389C/50389	3	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
5091C/51091	3	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
6802C/50226	3	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Site Pair	MVD	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
5389C/50389	1	0	--	--	0	--	--	-	---																			
5091C/51091	1	0	--	--	3	0.00	0.00	-	---																			
6802C/50226	1	0	--	--	3	0.00	0.00	-	---																			
Habitat Means			--	--		0.00	0.00																					
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
5389C/50389	2	0	--	--	0	--	--	-	---																			
5091C/51091	2	0	--	--	3	0.00	0.00	-	---																			
6802C/50226	2	0	--	--	2	0.00	0.00	-	---																			
Habitat Means			--	--		0.00	0.00																					
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
5389C/50389	3	0	--	--	0	--	--	-	---																			
5091C/51091	3	0	--	--	3	0.00	0.00	-	---																			
6802C/50226	3	0	--	--	0	--	--	-	---																			
Habitat Means			--	--		0.00	0.00																					
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.83. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus gardneri (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
51091C/51091	1	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
62802C/50226	1	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
50389C/50389	2	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
51091C/51091	2	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
62802C/50226	2	0	--	--	2	0.00	0.00	-	---		0	--	--	2	0.00	0.00	-	---		0	--	--	2	0.00	0.00	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
50389C/50389	3	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
51091C/51091	*3*	*0*	--	--	*3*	*0.00*	*0.00*	-	---		*0*	--	--	*3*	*0.00*	*0.00*	-	---		*0*	--	--	*3*	*0.00*	*0.00*	-	---	
62802C/50226	3	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

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

		Petalonia fascia (AE)								*Morphological Group - Coarse Filamentous Browns*								Total Dictyosiphon (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
51091C/51091	1	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
62802C/50226	1	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
50389C/50389	2	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
51091C/51091	2	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
62802C/50226	2	0	--	--	2	0.00	0.00	-	---		0	--	--	2	0.00	0.00	-	---		0	--	--	2	0.00	0.00	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
50389C/50389	3	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
51091C/51091	3	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
62802C/50226	3	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		*Power*	---		*Power-50%*		---	*P-value*	---		*Power*	---		*Power-50%*		---	*P-value*	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

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

Table C-3.83. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
51091C/51091	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.83. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. September 1989. (Continued.)

		Morphological Group - Saccate Browns								Leathesia difformis (A)													
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
51091C/51091	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
62802C/50226	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
51091C/51091	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
62802C/50226	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
51091C/51091	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
[illegible]		Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

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

Table C-3.84. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
51091C/51091	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Porphyra sp. (A)								Tokidadendron kurilensis (A)								Morphological Group - Coarse Filamentous Reds							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
51091C/51091	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.84. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---

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

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---

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

Table C-3.84. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Saccate Reds								Total Halosaccion (A)								Halosaccion glandiformе (A)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	2	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.85. Algal Biomass. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.33	0.21	0.9	-	0.175	6	0.00	0.00	6	0.15	0.15	1.4	-	0.357	6	0.00	0.00	6	0.15	0.15	1.4	-	0.363
62802C/50226	1	6	0.33	0.33	6	0.00	0.00	1.4	+	0.363	6	1.78	1.78	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.11	0.11		0.11	0.07	-				0.59	0.59		0.05	0.05	-				0.00	0.00		0.05	0.05	-		
Fisher's	Power		0.000		Power-50%		---	P-value		0.353 y	Power	0.000		Power-50%		---	P-value		0.515 y	Power	---		Power-50%		---	P-value		0.403
Stouffer's	Power		0.000		Power-50%		---	P-value		0.456	Power	0.000		Power-50%		---	P-value		0.546	Power	---		Power-50%		---	P-value		0.320
50389C/50389	2	6	0.00	0.00	6	0.33	0.21	0.9	-	0.175	6	0.00	0.00	6	29.58	29.36	1.4	-	0.360	6	0.00	0.00	6	29.58	29.36	1.4	-	0.360
51091C/51091	2	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.33	0.33	6	0.83	0.83	1.1	-	0.590	6	3.55	3.55	6	53.51	53.51	1.3	-	0.891	6	3.27	3.27	6	53.50	53.50	1.3	-	0.888
Habitat Means			0.17	0.17		0.39	0.35	-				1.18	1.18		27.70	27.62	-				1.09	1.09		27.70	27.62	-		
Fisher's	Power		0.001		Power-50%		---	P-value		0.259	Power	0.000		Power-50%		---	P-value		0.488	Power	0.000		Power-50%		0.000	P-value		0.376
Stouffer's	Power		0.001		Power-50%		---	P-value		0.259	Power	0.001		Power-50%		---	P-value		0.446	Power	0.003		Power-50%		---	P-value		0.272
50389C/50389	3	6	0.17	0.17	6	0.67	0.33	0.6	-	0.209	6	0.50	0.50	6	12.30	7.19	0.8	-	0.203	6	0.50	0.50	6	2.12	2.12	1.2	-	0.928
51091C/51091	3	6	0.33	0.21	5	0.20	0.20	0.8	+	0.662	6	11.37	9.21	5	413.46	413.46	1.2	-	0.856	6	9.40	9.40	5	413.46	413.46	1.2	-	0.773
62802C/50226	3	6	2.33	0.88	6	1.83	1.01	0.5	+	0.718	6	178.99	158.86	6	269.17	132.09	0.7	-	0.672	6	173.13	160.06	6	211.14	95.85	0.7	-	0.843
Habitat Means			0.94	0.42		0.90	0.52	-				63.62	56.19		231.64	184.25	-				61.01	56.65		208.90	170.47	-		
Fisher's	Power		0.057		Power-50%		0.503	P-value		0.612	Power	0.351		Power-50%		0.102	P-value		0.207	Power	0.044		Power-50%		0.044	P-value		0.523
Stouffer's	Power		0.031		Power-50%		0.613	P-value		0.598	Power	0.518		Power-50%		0.263	P-value		0.140	Power	0.162		Power-50%		0.120	P-value		0.372

(a) 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.

		Annuals (A)								Ephemerals (AE)																
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	1	6	1.78	1.78	6	0.00	0.00	1.4	-	0.363	6	1.42	1.42	6	0.00	0.00	1.4	+	0.363									
Habitat Means			0.59	0.59		0.00	0.00	-				0.47	0.47		0.00	0.00	+											
Fisher's	Power		---		Power-50%		---	P-value		0.519 y	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.548	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363									
62802C/50226	2	6	0.28	0.28	6	0.01	0.01	1.4	+	0.728	6	0.28	0.28	6	0.00	0.00	1.4	-	0.645									
Habitat Means			0.10	0.10		0.00	0.00	+				0.10	0.10		0.00	0.00	+											
Fisher's	Power		---		Power-50%		---	P-value		0.338	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.245	Power	---		Power-50%		---	P-value		0.222	Power	---		Power-50%		---	P-value		
50389C/50389	3	6	0.00	0.00	6	10.18	7.34	1.0	-	0.224	6	0.00	0.00	6	2.63	2.21	1.2	-	0.286									
51091C/51091	3	6	1.97	1.97	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
62802C/50226	3	6	5.86	4.09	6	58.03	47.37	1.1	-	0.664	6	4.33	2.76	6	54.40	46.72	1.1	-	0.675									
Habitat Means			2.61	2.02		22.74	18.24	-				1.44	0.92		19.01	16.31	-											
Fisher's	Power		0.018		Power-50%		0.004	P-value		0.322	Power	0.013		Power-50%		0.000	P-value		0.281	Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.036		Power-50%		0.010	P-value		0.309	Power	0.059		Power-50%		0.000	P-value		0.192	Power	---		Power-50%		---	P-value		

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

Table C-3.86. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Monostroma/Ulvaria (AE) (b)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	1	6	1.78	1.78	6	0.00	0.00	1.4	+	0.363	6	1.42	1.42	6	0.00	0.00	1.4	+	0.363	6	1.42	1.42	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.59	0.59		0.00	0.00		+			0.47	0.47		0.00	0.00		+			0.47	0.47		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	2	6	0.28	0.28	6	0.00	0.00	1.4	+	0.698	6	0.28	0.28	6	0.00	0.00	1.4	+	0.645	6	0.28	0.28	6	0.00	0.00	1.4	+	0.645
Habitat Means			0.10	0.10		0.00	0.00		+			0.09	0.09		0.00	0.00		+			0.09	0.09		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.330	Power	---		Power-50%		---	P-value		0.539	Power	---		Power-50%		---	P-value		0.539
Stouffer's		Power	---		Power-50%		---	P-value		0.236	Power	---		Power-50%		---	P-value		0.383	Power	---		Power-50%		---	P-value		0.383
50389C/50389	3	6	0.00	0.00	6	2.25	2.25	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	3	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
62802C/50226	3	6	5.37	3.65	6	0.07	0.07	1.0	+	0.092	6	0.08	0.08	6	0.07	0.07	1.0	+	0.879	6	0.00	0.00	6	0.07	0.07	1.4	-	0.363
Habitat Means			1.79	1.22		0.77	0.77		+			0.03	0.03		0.02	0.02		+			0.00	0.00		0.02	0.02			
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.241	Power	---		Power-50%		---	P-value		0.621	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.281	Power	---		Power-50%		---	P-value		0.461	Power	---		Power-50%		---	P-value		0.278

(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.

		Total Ulva (AE)								Ulva spp. (AE)								Ulva fenestrata (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	*2*	*6*	*0.00*	*0.00*	*6*	*0.00*	*0.00*		*- o*	*1.000*	*6*	*0.00*	*0.00*	*6*	*0.00*	*0.00*		*- o*	*1.000*	*6*	*0.00*	*0.00*	*6*	*0.00*	*0.00*		*- o*	*1.000*
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	3	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
62802C/50226	3	6	0.08	0.08	6	0.00	0.00	1.4	+	0.363	6	0.08	0.08	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.03	0.03		0.00	0.00		+			0.03	0.03		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		*0.403*	Power	---		Power-50%		---	P-value		*0.403*	Power	---		Power-50%		---	P-value		*0.655*
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.86. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens									Acrosiphonia sp. (A)									Total Chaetomorpha/Rhizoclonium (A)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.37	0.37	6	0.00	0.00	1.4	-	0.363	6	0.37	0.37	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.12	0.12		0.00	0.00		+			0.12	0.12		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power		---		Power-50%		---	P-value		0.403	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.278	Power		---		Power-50%		---	P-value		0.278	Power		---		Power-50%		---	P-value	0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power		---		Power-50%		---	P-value		0.403	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.278	Power		---		Power-50%		---	P-value		0.278	Power		---		Power-50%		---	P-value	0.500
50389C/50389	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62802C/50226	3	6	1.05	1.05	6	0.00	0.00	1.4	-	0.362	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.04	1.04	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.35	0.35		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.35	0.35		0.00	0.00		-	
Fisher's	Power		0.000		Power-50%		0.000	P-value		0.402	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	0.403
Stouffer's	Power		0.000		Power-50%		0.000	P-value		0.278	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.278

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

Site Pair	MVD	Chaetomorpha/Rhizoclonium spp. (A) (b)									Cladophora sp. (AE)									Morphological Group - Tubular and Saccate Greens								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	0.403
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.320
50389C/50389	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	2.25	2.25	1.4	-	0.363
51091C/51091	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62802C/50226	3	6	1.04	1.04	6	0.00	0.00	1.4	+	0.363	6	0.01	0.01	6	0.00	0.00	1.2	+	0.291	6	4.24	2.77	6	0.00	0.00	0.9	+	0.187
Habitat Means			0.35	0.35		0.00	0.00		+			0.00	0.00		0.00	0.00		+			1.41	0.92		0.75	0.75		+	
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power	0.000		Power-50%		0.000	P-value		0.356	Power	0.000		Power-50%		0.000	P-value		0.367
Stouffer's	Power		---		Power-50%		---	P-value		0.278	Power	0.000		Power-50%		0.000	P-value		0.247	Power	0.000		Power-50%		0.001	P-value		0.366

(b) Chaetomorpha melagonium not included.

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

Table C-3.86. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.320	Power	---		Power-50%		---	P-value		0.320	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	6	2.25	2.25	1.4	-	0.363	6	0.00	0.00	6	2.25	2.25	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62802C/50226	3	6	4.24	2.77	6	0.00	0.00	0.9	+	0.187	6	4.23	2.77	6	0.00	0.00	0.9	+	0.187	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			1.41	0.92		0.75	0.75		+			1.41	0.92		0.75	0.75		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.367	Power	0.011		Power-50%		0.021	P-value		0.367	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.366	Power	0.003		Power-50%		0.016	P-value		0.366	Power	---		Power-50%		---	P-value		0.278

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Site Pair	MVD	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
51091C/51091	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000																		
62802C/50226	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.87. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus gardneri (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.15	0.15	1.4	-	0.357	6	0.00	0.00	6	0.15	0.15	1.4	-	0.363	6	0.00	0.00	6	0.15	0.15	1.4	-	0.363
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.05	0.05		-			0.00	0.00		0.05	0.05		-			0.00	0.00		0.05	0.05		-	
Fisher's	Power		0.000		Power-50%		---	P-value		0.399	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's	Power		0.000		Power-50%		---	P-value		0.318	Power	---		Power-50%		---	P-value		0.320	Power	---		Power-50%		---	P-value		0.320
50389C/50389	2	6	0.00	0.00	6	29.58	29.36	1.4	-	0.360	6	0.00	0.00	6	29.58	29.36	1.4	-	0.360	6	0.00	0.00	6	29.58	29.36	1.4	-	0.360
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	3.27	3.27	6	53.50	53.50	1.3	-	0.888	6	3.27	3.27	6	53.50	53.50	1.3	-	0.888	6	3.27	3.27	6	53.50	53.50	1.3	-	0.888
Habitat Means			1.09	1.09		27.69	27.62		-			1.09	1.09		27.69	27.62		-			1.09	1.09		27.69	27.62		-	
Fisher's	Power		0.000		Power-50%		---	P-value		0.376	Power	0.002		Power-50%		---	P-value		0.376	Power	0.000		Power-50%		0.000	P-value		0.376
Stouffer's	Power		0.004		Power-50%		---	P-value		0.272	Power	0.004		Power-50%		---	P-value		0.272	Power	0.005		Power-50%		---	P-value		0.272
50389C/50389	3	6	0.50	0.50	6	2.50	2.50	1.2	-	0.921	6	0.50	0.50	6	2.12	2.12	1.2	-	0.928	6	0.50	0.50	6	2.12	2.12	1.2	-	0.928
51091C/51091	3	6	11.37	9.21	5	413.46	413.46	1.2	-	0.856	6	9.40	9.40	5	413.46	413.46	1.2	-	0.773	6	9.40	9.40	5	413.46	413.46	1.2	-	0.773
62802C/50226	3	6	160.90	147.27	6	263.93	129.50	0.7	-	0.611	6	160.42	147.37	6	209.60	95.02	0.7	-	0.785	6	160.42	147.37	6	209.60	95.02	0.7	-	0.785
Habitat Means			57.59	52.33		226.63	181.82		-			56.77	52.42		208.39	170.20		-			56.77	52.42		208.39	170.20		-	
Fisher's	Power		0.078		Power-50%		0.073	P-value		0.467	Power	0.047		Power-50%		0.012	P-value		0.505	Power	0.057		Power-50%		0.057	P-value		0.505
Stouffer's	Power		0.223		Power-50%		0.232	P-value		0.316	Power	0.174		Power-50%		0.124	P-value		0.354	Power	0.176		Power-50%		0.137	P-value		0.354

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

		Petalonia fascia (AE)								Morphological Group - Coarse Filamentous Browns								Total Dictyosiphon (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.320	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.97	1.97	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.49	0.48	6	0.00	0.00	1.4	+	0.361	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.82	0.82		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	0.001		Power-50%		0.000	P-value		0.222	Power	---		Power-50%		---	P-value		0.403
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		0.000	P-value		0.145	Power	---		Power-50%		---	P-value		0.278

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

Table C-3.87. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.320
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.97	1.97	5	0.00	0.00	1.6	+	0.363
62802C/50226	3	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.48	0.48	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.82	0.82		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.223
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.146

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	6	0.38	0.38	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.38	0.38	1.4	-	0.363
51091C/51091	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	6	54.33	46.72	1.2	-	0.297	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	54.33	46.72	1.2	-	0.297
Habitat Means			0.00	0.00		18.24	15.70		-			0.00	0.00		0.00	0.00		o			0.00	0.00		18.24	15.70		-	
Fisher's		Power	0.009		Power-50%		---	P-value		0.197	Power	---		Power-50%		---	P-value		0.655	Power	0.009		Power-50%		0.009	P-value		0.197
Stouffer's		Power	0.043		Power-50%		---	P-value		0.118	Power	---		Power-50%		---	P-value		0.500	Power	0.048		Power-50%		---	P-value		0.118

Table C-3.87. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

		Morphological Group - Saccate Browns								Leathesia difformis (A)																
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
50389C/50389	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
51091C/51091	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
62802C/50226	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

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

Table C-3.88. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
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		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278
50389C/50389	3	6	0.00	0.00	6	7.55	7.55	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	3	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
62802C/50226	3	6	12.72	12.72	6	5.17	3.41	1.0	+	0.579	6	12.72	12.72	6	1.07	0.75	1.3	+	0.717	6	12.72	12.72	6	0.32	0.32	1.4	+	0.830
Habitat Means			4.24	4.24		4.24	3.65		-			4.24	4.24		0.36	0.25		+			4.24	4.24		0.11	0.11		-	
Fisher's		Power	0.036		Power-50%		---	P-value		0.484	Power	0.001		Power-50%		---	P-value		0.566	Power	---		Power-50%		---	P-value		0.605
Stouffer's		Power	0.059		Power-50%		---	P-value		0.439	Power	0.000		Power-50%		---	P-value		0.407	Power	---		Power-50%		---	P-value		0.445

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

		Porphyra sp. (A)								Tokidadendron kurilensis (A)								Morphological Group - Coarse Filamentous Reds							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	7.55	7.55	1.4	-	0.363
51091C/51091	3	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
62802C/50226	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.75	0.75	1.4	-	0.363	6	0.00	0.00	6	4.10	2.90	1.0	-	0.216
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.25	0.25		-			0.00	0.00		3.88	3.48		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	0.049		Power-50%		0.049	P-value		0.160
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.095

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

Table C-3.88. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.500
50389C/50389	3	6	0.00	0.00	6	7.55	7.55	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	6	2.88	2.88	1.4	-	0.363	6	0.00	0.00	6	1.22	1.22	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		3.48	3.48		-			0.00	0.00		0.41	0.41		-			0.00	0.00		0.00	0.00		-	
Fisher's	Power		---		Power-50%		---	P-value		0.223	Power		---		Power-50%		---	P-value		0.403	Power		---		Power-50%		---	P-value	0.403
Stouffer's	Power		---		Power-50%		---	P-value		0.136	Power		---		Power-50%		---	P-value		0.278	Power		---		Power-50%		---	P-value	0.278

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

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value		0.403	Power		---		Power-50%		---	P-value	0.403
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.278	Power		---		Power-50%		---	P-value	0.278
50389C/50389	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	6	1.22	1.22	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.41	0.41		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.278	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.500

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

Table C-3.88. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Morphological Group - Saccate Reds								Total Halosaccion (A)								Halosaccion glandiforme (A)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.89. Algal Biomass. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Algal Taxa Richness (a) N	C	SE	N	O	SE	CV	D	P	Total Algae N	C	SE	N	O	SE	CV	D	P	Perennials (P) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.33	0.21	0.9	-	0.175	6	0.00	0.00	6	4.37	3.51	1.1	-	0.269	6	0.00	0.00	6	4.37	3.51	1.1	-	0.269
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	1.78	1.78	1.4	-	0.363	6	0.00	0.00	6	1.78	1.78	1.4	-	0.363
Habitat Means			0.00	0.00		0.17	0.13		-			0.00	0.00		2.05	1.77		-			0.00	0.00		2.05	1.77		-	
Fisher's		Power	0.000		Power-50%		---		P-value	0.139	Power	0.021		Power-50%		---		P-value	0.184	Power	0.019		Power-50%		0.019		P-value	0.184
Stouffer's		Power	---		Power-50%		---		P-value	0.088	Power	0.063		Power-50%		---		P-value	0.113	Power	0.063		Power-50%		---		P-value	0.113
50389C/50389	2	6	0.17	0.17	6	0.17	0.17	1.0	o	1.000	6	0.02	0.02	6	0.22	0.22	1.3	-	0.831	6	0.02	0.02	6	0.22	0.22	1.3	-	0.831
51091C/51091	2	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	1.78	1.78	1.4	-	0.363	6	0.00	0.00	6	1.78	1.78	1.4	-	0.363
62802C/50226	2	6	1.50	1.31	6	0.33	0.33	1.0	+	0.423	6	43.69	42.91	6	0.84	0.84	1.4	+	0.476	6	16.29	15.52	6	0.00	0.00	1.3	+	0.342
Habitat Means			0.56	0.49		0.22	0.22		-			14.57	14.31		0.95	0.95		-			5.43	5.18		0.67	0.67		-	
Fisher's		Power	0.005		Power-50%		0.002		P-value	0.509 y	Power	0.002		Power-50%		0.001		P-value	0.456 y	Power	0.000		Power-50%		0.000		P-value	0.476 y
Stouffer's		Power	0.025		Power-50%		0.028		P-value	0.520	Power	0.020		Power-50%		0.007		P-value	0.450	Power	0.000		Power-50%		0.015		P-value	0.511
50389C/50389	3	6	0.17	0.17	6	2.83	1.35	0.6	-	0.106	6	293.60	293.60	6	246.37	132.22	0.8	+	0.886	6	293.60	293.60	6	59.77	35.62	1.2	+	0.165
51091C/51091	3	6	0.50	0.50	6	0.50	0.34	0.9	o	1.000	6	47.15	47.15	6	5.49	4.77	1.3	+	0.701	6	47.15	47.15	6	4.85	4.85	1.3	+	0.909
62802C/50226	3	6	1.33	0.67	5	1.40	0.75	0.5	-	0.948	6	6.43	4.12	5	185.89	142.55	0.9	-	0.398	6	3.60	3.46	5	184.99	141.89	1.0	-	0.239
Habitat Means			0.67	0.44		1.58	0.81		-			115.73	114.96		145.92	93.18		-			114.78	114.74		83.20	60.79		-	
Fisher's		Power	0.350		Power-50%		0.253		P-value	0.188	Power	0.000		Power-50%		0.011		P-value	0.654 y	Power	0.000		Power-50%		0.000		P-value	0.338
Stouffer's		Power	0.288		Power-50%		0.365		P-value	0.171	Power	0.002		Power-50%		0.110		P-value	0.606	Power	0.001		Power-50%		0.202		P-value	0.469

(a) 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.

Site Pair	MVD	Annuals (A) N	C	SE	N	O	SE	CV	D	P	Ephemerals (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	2	6	27.40	27.40	6	0.84	0.84	1.4	+	0.850	6	27.20	27.20	6	0.83	0.83	1.4	+	0.850									
Habitat Means			9.13	9.13		0.28	0.28		+			9.07	9.07		0.28	0.28		+										
Fisher's		Power	---		Power-50%		---		P-value	0.611	Power	---		Power-50%		---		P-value	0.611	Power	---		Power-50%		---		P-value	
Stouffer's		Power	---		Power-50%		---		P-value	0.451	Power	---		Power-50%		---		P-value	0.451	Power	---		Power-50%		---		P-value	
50389C/50389	3	6	0.00	0.00	6	186.60	121.35	0.9	-	0.185	6	0.00	0.00	6	181.37	117.33	0.9	-	0.183									
51091C/51091	3	6	0.00	0.00	6	0.64	0.63	1.4	-	0.426	6	0.00	0.00	6	0.64	0.63	1.4	-	0.384									
62802C/50226	3	6	2.83	2.60	5	0.90	0.68	1.1	+	0.529	6	2.82	2.60	5	0.90	0.68	1.1	+	0.529									
Habitat Means			0.94	0.87		62.71	40.89		-			0.94	0.87		60.97	39.55		-										
Fisher's		Power	0.079		Power-50%		0.001		P-value	0.206	Power	0.089		Power-50%		0.000		P-value	0.191	Power	---		Power-50%		---		P-value	
Stouffer's		Power	0.257		Power-50%		0.001		P-value	0.227	Power	0.274		Power-50%		0.003		P-value	0.215	Power	---		Power-50%		---		P-value	

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

Table C-3.90. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Monostroma/Ulvaria (AE) (b)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o
Fisher's		Power	---		Power-50%	---		P-value	0.655		Power	---		Power-50%	---		P-value	0.655		Power	---		Power-50%	---		P-value	0.655	
Stouffer's		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500	
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62802C/50226	2	6	26.87	26.87	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			8.96	8.96		0.00	0.00			+		0.00	0.00		0.00	0.00			+		0.00	0.00		0.00	0.00			o
Fisher's		Power	---		Power-50%	---		P-value	0.403		Power	---		Power-50%	---		P-value	0.403		Power	---		Power-50%	---		P-value	0.655	
Stouffer's		Power	---		Power-50%	---		P-value	0.278		Power	---		Power-50%	---		P-value	0.278		Power	---		Power-50%	---		P-value	0.500	
50389C/50389	3	6	0.00	0.00	6	123.39	78.46	0.9	-	0.177	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
51091C/51091	3	6	0.00	0.00	6	0.64	0.63	1.4	-	0.362	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62802C/50226	3	6	2.82	2.60	5	0.30	0.20	1.3	+	0.808	6	0.00	0.00	5	0.30	0.20	0.8	-	0.208	6	0.00	0.00	5	0.20	0.20	1.3	-	0.374
Habitat Means			0.94	0.87		41.44	26.43			-		0.00	0.00		0.10	0.07			-		0.00	0.00		0.07	0.07			-
Fisher's		Power	0.076		Power-50%	0.000		P-value	0.157		Power	0.007		Power-50%	---		P-value	0.294		Power	---		Power-50%	---		P-value	0.409	
Stouffer's		Power	0.264		Power-50%	0.000		P-value	0.142		Power	0.007		Power-50%	---		P-value	0.208		Power	---		Power-50%	---		P-value	0.283	

(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.

		Total Ulva (AE)								Ulva spp. (AE)								Ulva fenestrata (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o
Fisher's		Power	---		Power-50%	---		P-value	0.655		Power	---		Power-50%	---		P-value	0.655		Power	---		Power-50%	---		P-value	0.655	
Stouffer's		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500	
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00			.		0.00	0.00		0.00	0.00			+		0.00	0.00		0.00	0.00			o
Fisher's		Power	---		Power-50%	---		P-value	0.403		Power	---		Power-50%	---		P-value	0.403		Power	---		Power-50%	---		P-value	0.655	
Stouffer's		Power	---		Power-50%	---		P-value	0.278		Power	---		Power-50%	---		P-value	0.278		Power	---		Power-50%	---		P-value	0.500	
50389C/50389	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62802C/50226	3	6	0.00	0.00	5	0.10	0.10	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00		-	o 1.000	6	0.00	0.00	5	0.10	0.10	1.3	-	0.374
Habitat Means			0.00	0.00		0.03	0.03			-		0.00	0.00		0.00	0.00			o		0.00	0.00		0.03	0.03			-
Fisher's		Power	---		Power-50%	---		P-value	0.409		Power	---		Power-50%	---		P-value	0.655		Power	---		Power-50%	---		P-value	0.409	
Stouffer's		Power	---		Power-50%	---		P-value	0.283		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.283	

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

Table C-3.90. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. August 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens								Acrosiphonia sp. (A)								Total Chaetomorpha/Rhizoclonium (A)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	2	6	21.28	21.28	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			7.09	7.09		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.403	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	---		Power-50%		---		P-value	0.278	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
50389C/50389	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	3	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---		P-value	0.403	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.403
Stouffer's		Power	---		Power-50%		---		P-value	0.278	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.278

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

Site Pair	MVD	Chaetomorpha/Rhizoclonium spp. (A) (b)								Cladophora sp. (AE)								Morphological Group - Tubular and Saccate Greens							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.655
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	21.28	21.28	6	0.00	0.00	1.4	+	0.363	6	5.58	5.58	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			7.09	7.09		0.00	0.00		+			1.86	1.86		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---		P-value	0.655	Power	---		Power-50%		---		P-value	0.403	Power	---		Power-50%		---		P-value	0.403
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.278	Power	---		Power-50%		---		P-value	0.278
50389C/50389	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	123.39	78.46	0.9	-	0.177
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.64	0.63	1.4	-	0.362
62802C/50226	3	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	2.82	2.60	5	0.00	0.00	1.4	+	0.328
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.94	0.87		41.34	26.37		-	
Fisher's		Power	---		Power-50%		---		P-value	0.403	Power	---		Power-50%		---		P-value	0.655	Power	0.001		Power-50%		0.001	P-value		0.195
Stouffer's		Power	---		Power-50%		---		P-value	0.278	Power	---		Power-50%		---		P-value	0.500	Power	0.000		Power-50%		0.000	P-value		0.276

(b) Chaetomorpha muelleri not included.

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

Table C-3.90. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. August 1990. (Continued.)

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	5.58	5.58	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.25	0.25	6	0.00	0.00	1.4	+	0.363
Habitat Means			1.86	1.86		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.08	0.08		0.00	0.00		+	
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's	Power		---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.278
50389C/50389	3	6	0.00	0.00	6	123.39	78.46	0.9	-	0.177	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	100.16	62.46	0.9	-	0.170
51091C/51091	3	6	0.00	0.00	6	0.64	0.63	1.4	-	0.362	6	0.00	0.00	6	0.64	0.63	1.4	-	0.362	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	6	2.82	2.60	5	0.00	0.00	1.4	+	0.328	6	2.66	2.63	5	0.00	0.00	1.5	+	0.359	6	0.17	0.17	5	0.00	0.00	1.6	+	0.363
Habitat Means			0.94	0.87		41.34	26.37		-			0.89	0.88		0.21	0.21		+			0.06	0.06		33.39	20.82		-	
Fisher's	Power		0.001		Power-50%		0.000	P-value		0.195	Power	0.000		Power-50%		0.002	P-value		0.516	Power	0.000		Power-50%		0.000	P-value		0.347
Stouffer's	Power		0.000		Power-50%		0.000	P-value		0.276	Power	0.000		Power-50%		0.001	P-value		0.450	Power	0.000		Power-50%		---	P-value		0.427

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Site Pair	MVD	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62802C/50226	2	6	5.33	5.33	6	0.00	0.00	1.4	+	0.363																		
Habitat Means			1.78	1.78		0.00	0.00		+																			
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
50389C/50389	3	6	0.00	0.00	6	23.23	23.23	1.4	-	0.363																		
51091C/51091	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
62802C/50226	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		7.74	7.74		-																			
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---	P-value		0.305	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.91. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus gardneri (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	4.37	3.51	1.1	-	0.269	6	0.00	0.00	6	4.37	3.51	1.1	-	0.269	6	0.00	0.00	6	4.37	3.51	1.1	-	0.269
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		1.46	1.17		-			0.00	0.00		1.46	1.17		-			0.00	0.00		1.46	1.17		-	
Fisher's		Power	0.001		Power-50%		---	P-value		0.341	Power	0.001		Power-50%		---	P-value		0.341	Power	0.001		Power-50%		0.001	P-value		0.341
Stouffer's		Power	0.000		Power-50%		---	P-value		0.267	Power	0.000		Power-50%		---	P-value		0.267	Power	0.000		Power-50%		---	P-value		0.267
50389C/50389	2	6	0.02	0.02	6	0.22	0.22	1.3	-	0.831	6	0.02	0.02	6	0.22	0.22	1.3	-	0.831	6	0.02	0.02	6	0.22	0.22	1.3	-	0.831
51091C/51091	2	6	0.00	0.00	6	1.78	1.78	1.4	-	0.363	6	0.00	0.00	6	1.78	1.78	1.4	-	0.363	6	0.00	0.00	6	1.78	1.78	1.4	-	0.363
62802C/50226	2	6	16.82	16.05	6	0.83	0.83	1.3	+	0.492	6	16.29	15.52	6	0.00	0.00	1.3	+	0.342	6	16.29	15.52	6	0.00	0.00	1.3	+	0.342
Habitat Means			5.61	5.36		0.94	0.94		-			5.43	5.18		0.67	0.67		-			5.43	5.18		0.67	0.67		-	
Fisher's		Power	0.005		Power-50%		0.001	P-value		0.454 y	Power	0.001		Power-50%		0.002	P-value		0.476 y	Power	0.000		Power-50%		0.000	P-value		0.476 y
Stouffer's		Power	0.027		Power-50%		0.008	P-value		0.443	Power	0.000		Power-50%		0.012	P-value		0.511	Power	0.000		Power-50%		0.015	P-value		0.511
50389C/50389	3	6	293.60	293.60	6	110.73	69.52	1.1	+	0.155	6	293.60	293.60	6	51.02	33.63	1.2	+	0.168	6	293.60	293.60	6	50.40	33.73	1.2	+	0.170
51091C/51091	3	6	47.15	47.15	6	4.85	4.85	1.3	+	0.909	6	47.15	47.15	6	4.85	4.85	1.3	+	0.909	6	47.15	47.15	6	4.85	4.85	1.3	+	0.909
62802C/50226	3	6	3.60	3.46	5	185.59	142.48	1.0	-	0.304	6	3.60	3.46	5	184.99	141.89	1.0	-	0.239	6	3.60	3.46	5	184.99	141.89	1.0	-	0.239
Habitat Means			114.79	114.74		100.39	72.28		+			114.78	114.74		80.29	60.12		+			114.78	114.74		80.08	60.16		-	
Fisher's		Power	0.000		Power-50%		0.012	P-value		0.319	Power	0.001		Power-50%		0.033	P-value		0.341	Power	0.000		Power-50%		0.000	P-value		0.343
Stouffer's		Power	0.001		Power-50%		0.134	P-value		0.424	Power	0.002		Power-50%		0.211	P-value		0.471	Power	0.002		Power-50%		0.201	P-value		0.472

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

		Petalonia fascia (AE)								Morphological Group - Coarse Filamentous Browns								Total Dictyosiphon (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.20	0.20	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.07	0.07		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	6	0.62	0.62	1.4	-	0.363	6	0.00	0.00	6	2.10	1.76	1.2	-	0.288	6	0.00	0.00	6	0.82	0.82	1.4	-	0.363
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	3	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.21	0.21		-			0.00	0.00		0.70	0.59		-			0.00	0.00		0.27	0.27		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.000		Power-50%		---	P-value		0.462	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.305	Power	0.000		Power-50%		---	P-value		0.448	Power	---		Power-50%		---	P-value		0.305

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

Table C-3.91. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. August 1990. (Continued.)

Site Pair	MVD	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.20	0.20	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.07	0.07		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.278
50389C/50389	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.82	0.82	1.4	-	0.363	6	0.00	0.00	6	1.28	0.97	1.1	-	0.243
51091C/51091	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
62802C/50226	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.27	0.27		-			0.00	0.00		0.43	0.32		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	0.001		Power-50%		0.001	P-value		0.423
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.305	Power	0.000		Power-50%		---	P-value		0.425

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.33	0.33	6	0.83	0.83	1.1	-	0.590	6	0.20	0.20	6	0.00	0.00	1.4	-	0.363	6	0.13	0.13	6	0.83	0.83	1.2	-	0.899
Habitat Means			0.11	0.11		0.28	0.28		-			0.07	0.07		0.00	0.00		-			0.04	0.04		0.28	0.28		-	
Fisher's		Power	---		Power-50%		---	P-value		0.517	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.626
Stouffer's		Power	---		Power-50%		---	P-value		0.364	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.467
50389C/50389	3	6	0.00	0.00	6	57.36	57.08	1.4	-	0.361	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	57.36	57.08	1.4	-	0.361
51091C/51091	3	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	5	0.60	0.60	1.3	-	0.543	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.60	0.60	1.3	-	0.543
Habitat Means			0.00	0.00		19.32	19.23		-			0.00	0.00		0.00	0.00		+			0.00	0.00		19.32	19.23		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.377	Power	---		Power-50%		---	P-value		0.403	Power	0.002		Power-50%		0.002	P-value		0.284
Stouffer's		Power	0.002		Power-50%		---	P-value		0.330	Power	---		Power-50%		---	P-value		0.320	Power	0.009		Power-50%		---	P-value		0.182

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

Table C-3.91. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. August 1990. (Continued.)

		Morphological Group - Saccate Browns								Leathesia difformis (A)																	
Wt	P i	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1		6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
51091C/51091	1		6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	1		6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's			Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's			Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
50389C/50389	2		6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
51091C/51091	2		6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	2		6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's			Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's			Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
50389C/50389	3		6	0.00	0.00	6	0.25	0.25	1.4	-	0.363	6	0.00	0.00	6	0.25	0.25	1.4	-	0.363									
51091C/51091	3		6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	3		6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means				0.00	0.00		0.08	0.08		-			0.00	0.00		0.08	0.08		-										
Fisher's			Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		
Stouffer's			Power	---		Power-50%		---	P-value		0.305	Power	---		Power-50%		---	P-value		0.305	Power	---		Power-50%		---	P-value		

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

Table C-3.92. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta							Morphological Group - Bladed Reds							Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
62802C/50226	1	6	0.00	0.00	6	1.78	1.78	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
Habitat Means			0.00	0.00		0.59	0.59		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	6	12.25	12.25	1.4	-	0.363	6	0.00	0.00	6	9.37	9.37	1.4	-	0.363	6	0.00	0.00	6	9.37	9.37	1.4	-	0.363
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000
62802C/50226	3	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00		o	1.000	6	0.00	0.00	5	0.00	0.00		-	1.000
Habitat Means			0.00	0.00		4.08	4.08		-			0.00	0.00		3.12	3.12		-			0.00	0.00		3.12	3.12		-	
Fisher's		Power	---		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.139	Power	---		Power-50%		---	P-value		0.305	Power	---		Power-50%		---	P-value		0.305

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

		Porphyra sp. (A)							Tokidadendron kurilensis (A)							Morphological Group - Coarse Filamentous Reds							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	1.78	1.78	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.59	0.59		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.278
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
62802C/50226	3	6	0.00	0.00	5	0.00	0.00		o	1.000	6	0.00	0.00	5	0.00	0.00		o	1.000	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.283

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

Table C-3.92. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. August 1990. (Continued.)

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.78	1.78	1.4	-	0.363	6	0.00	0.00	6	1.78	1.78	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.59	0.59		-			0.00	0.00		0.59	0.59		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.283	Power	---		Power-50%		---	P-value		0.283

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

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278
50389C/50389	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.92. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. August 1990. (Continued.)

		Morphological Group - Saccate Reds								Total Halosaccion (A)								Halosaccion glandiforme (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	6	0.00	0.00	6	2.88	2.88	1.4	-	0.363	6	0.00	0.00	6	2.88	2.88	1.4	-	0.363	6	0.00	0.00	6	2.88	2.88	1.4	-	0.363
51091C/51091	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.96	0.96		-			0.00	0.00		0.96	0.96		-			0.00	0.00		0.96	0.96		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.305	Power	---		Power-50%		---	P-value		0.305	Power	---		Power-50%		---	P-value		0.305

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

Table C-3.93. Algal Biomass. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.33	0.21	6	0.33	0.21	0.6	o	1.000	6	0.74	0.73	6	104.14	104.13	1.4	-	0.797	6	0.74	0.73	6	104.13	104.13	1.4	-	0.986
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.17	0.17	6	0.17	0.17	1.0	o	1.000	6	0.00	0.00	6	1.69	1.69	1.4	-	0.590	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.17	0.13		0.17	0.13		o			0.25	0.25		35.27	35.27		-			0.25	0.25		34.71	34.71		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.655	Power	0.000		Power-50%		0.000	P-value		0.462	Power	0.000		Power-50%		0.000	P-value		0.406 y
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.500	Power	0.001		Power-50%		0.001	P-value		0.311	Power	0.001		Power-50%		0.001	P-value		0.281
50389C/50389	2	6	0.33	0.33	6	0.17	0.17	1.1	-	0.664	6	0.33	0.33	6	0.03	0.03	1.3	-	0.857	6	0.32	0.32	6	0.03	0.03	1.3	+	0.860
51091C/51091	2	6	0.17	0.17	6	0.00	0.00	1.4	-	0.363	6	325.10	325.10	6	0.00	0.00	1.4	+	0.363	6	325.10	325.10	6	0.00	0.00	1.4	+	0.363
62802C/50226	2	6	1.83	1.25	6	0.17	0.17	0.9	-	0.242	6	149.44	149.12	6	4.75	4.75	1.4	+	0.168	6	148.68	148.36	6	4.75	4.75	1.4	+	0.168
Habitat Means			0.78	0.58		0.11	0.11		+			158.29	158.18		1.59	1.59		+			158.03	157.93		1.59	1.59		+	
Fisher's		Power	0.221		Power-50%		0.144	P-value		0.131	Power	0.021		Power-50%		0.018	P-value		0.122	Power	0.028		Power-50%		0.028	P-value		0.123
Stouffer's		Power	---		Power-50%		0.267	P-value		0.071	Power	---		Power-50%		---	P-value		0.072	Power	---		Power-50%		---	P-value		0.072
50389C/50389	3	5	0.20	0.20	6	1.00	0.26	0.4	-	0.042	5	0.36	0.36	6	60.42	43.25	1.1	-	0.021	5	0.00	0.00	6	58.05	43.85	1.2	-	0.243
51091C/51091	3	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.43	0.43	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.50	0.22	6	1.67	0.76	0.5	-	0.172	6	5.24	2.57	6	425.09	287.61	0.9	-	0.331	6	3.24	2.28	6	415.35	289.54	1.0	-	0.186
Habitat Means			0.29	0.20		0.89	0.34		-			2.01	1.12		161.83	110.29		-			1.08	0.76		157.80	111.13		-	
Fisher's		Power	---		Power-50%		---	P-value		0.042	Power	---		Power-50%		---	P-value		0.041	Power	0.111		Power-50%		0.111	P-value		0.111
Stouffer's		Power	---		Power-50%		0.000	P-value		0.059	Power	---		Power-50%		---	P-value		0.072	Power	---		Power-50%		---	P-value		0.065

(a) 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.

		Annuals (A)								Ephemerals (AE)																	
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363									
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	1	6	0.00	0.00	6	1.69	1.69	1.4	-	0.363	6	0.00	0.00	6	1.69	1.69	1.4	-	0.363									
Habitat Means			0.00	0.00		0.56	0.56		-			0.00	0.00		0.56	0.56		-										
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.136	Power	---		Power-50%		---	P-value		0.136	Power	---		Power-50%		---	P-value		
50389C/50389	2	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
62802C/50226	2	6	0.75	0.75	6	0.00	0.00	1.4	+	0.363	6	0.57	0.57	6	0.00	0.00	1.4	+	0.363									
Habitat Means			0.26	0.26		0.00	0.00		+			0.19	0.19		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.136	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		
50389C/50389	3	5	0.36	0.36	6	2.37	1.62	0.9	-	0.592	5	0.36	0.36	6	0.00	0.00	1.3	+	0.374									
51091C/51091	3	6	0.43	0.43	6	0.00	0.00	1.4	+	0.363	6	0.43	0.43	6	0.00	0.00	1.4	-	0.363									
62802C/50226	3	6	2.00	2.00	6	9.73	8.58	1.1	-	0.279	6	0.00	0.00	6	1.47	0.67	0.6	-	0.079									
Habitat Means			0.93	0.93		4.03	3.40		-			0.26	0.26		0.49	0.22		+										
Fisher's		Power	0.026		Power-50%		---	P-value		0.342	Power	0.010		Power-50%		---	P-value		0.335xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.037		Power-50%		---	P-value		0.297	Power	0.001		Power-50%		---	P-value		0.567	Power	---		Power-50%		---	P-value		

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

Table C-3.94. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Monostroma/Ulvaria (AE) (b)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	1.69	1.69	1.4	-	0.363	6	0.00	0.00	6	1.69	1.69	1.4	-	0.363	6	0.00	0.00	6	1.69	1.69	1.4	-	0.363
Habitat Means			0.00	0.00		0.56	0.56		-			0.00	0.00		0.56	0.56		-			0.00	0.00		0.56	0.56		-	
Fisher's	Power		---		Power-50%		---	P-value		0.223	Power		---		Power-50%		---	P-value	0.223	Power		---		Power-50%		---	P-value	0.223
Stouffer's	Power		---		Power-50%		---	P-value		0.136	Power		---		Power-50%		---	P-value	0.136	Power		---		Power-50%		---	P-value	0.136
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363	6	0.57	0.57	6	0.00	0.00	1.4	+	0.363	6	0.57	0.57	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.22	0.22		0.00	0.00		+			0.19	0.19		0.00	0.00		+			0.19	0.19		0.00	0.00		+	
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power		---		Power-50%		---	P-value	0.403	Power		---		Power-50%		---	P-value	0.403
Stouffer's	Power		---		Power-50%		---	P-value		0.278	Power		---		Power-50%		---	P-value	0.278	Power		---		Power-50%		---	P-value	0.278
50389C/50389	3	5	0.36	0.36	6	0.72	0.72	1.1	-	0.687	5	0.36	0.36	6	0.00	0.00	1.3	+	0.374	5	0.36	0.36	6	0.00	0.00	1.3	+	0.374
51091C/51091	3	6	*0.43*	*0.43*	6	*0.00*	*0.00*	1.4	+	*0.363*	6	*0.43*	*0.43*	6	*0.00*	*0.00*	1.4	+	*0.363*	6	*0.00*	*0.00*	6	*0.00*	*0.00*	-	o	1.000
62802C/50226	3	6	0.00	0.00	6	0.90	0.57	0.9	-	0.176	6	0.00	0.00	6	0.75	0.48	0.9	-	0.178	6	0.00	0.00	6	0.75	0.48	0.9	-	0.178
Habitat Means			0.26	0.26		0.54	0.43		-			0.26	0.26		0.25	0.16		+			0.12	0.12		0.25	0.16		-	
Fisher's	Power		0.056		Power-50%		---	P-value		0.286	Power		0.011		Power-50%		---	P-value	0.325	Power		0.019		Power-50%		0.019	P-value	0.355
Stouffer's	Power		0.058		Power-50%		---	P-value		0.263	Power		0.001		Power-50%		---	P-value	0.462	Power		0.008		Power-50%		---	P-value	0.355

(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.

		Total Ulva (AE)								Ulva spp. (AE)								*Ulva fenestrata* (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	0.655	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	0.655	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500
50389C/50389	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.43	0.43	6	0.00	0.00	1.4	+	0.363	6	0.43	0.43	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.14	0.14		0.00	0.00		+			0.14	0.14		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power		---		Power-50%		---	P-value	0.403	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.320	Power		---		Power-50%		---	P-value	0.320	Power		---		Power-50%		---	P-value	0.500

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

Table C-3.94. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.10	0.10	6	0.00	0.00	1.4	+	0.363	6	0.10	0.10	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.03	0.03		0.00	0.00		+			0.03	0.03		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278
50389C/50389	3	5	0.00	0.00	6	0.72	0.72	1.6	-	0.363	5	0.00	0.00	6	0.72	0.72	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	6	0.15	0.15	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.29	0.29		-			0.00	0.00		0.24	0.24		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.136	Power	---		Power-50%		---	P-value		0.305	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
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		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278
50389C/50389	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.15	0.15	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.05	0.05		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500

(b) Chaetomorpha melagonium not included.

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

Table C-3.94. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o
Fisher's		Power	---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.655	
Stouffer's		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500	
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
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	0.403		Power	---		Power-50%		---	P-value	0.403		Power	---		Power-50%		---	P-value	0.403	
Stouffer's		Power	---		Power-50%		---	P-value	0.278		Power	---		Power-50%		---	P-value	0.278		Power	---		Power-50%		---	P-value	0.278	
50389C/50389	3	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o 1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62802C/50226	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o
Fisher's		Power	---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.655		Power	---		Power-50%		---	P-value	0.655	
[illegible]		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500		Power	---		Power-50%		---	P-value	0.500	

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

Site Pair	MVD	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P
[illegible]										
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00			o
Fisher's		Power	---		Power-50%		---	P-value	0.655	
Stouffer's		Power	---		Power-50%		---	P-value	0.500	
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00			o
Fisher's		Power	---		Power-50%		---	P-value	0.655	
Stouffer's		Power	---		Power-50%		---	P-value	0.500	
50389C/50389	3	5	0.00	0.00	6	0.00	0.00		-	o 1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000
62802C/50226	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00			o
Fisher's		Power	---		Power-50%		---	P-value	0.655	
[illegible]		Power	---		Power-50%		---	P-value	0.500	

Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P
Fisher's		Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		
Fisher's		Power	---		Power-50%		---	P-value		
[illegible]		Power	---		Power-50%		---	P-value		

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

Table C-3.95. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus gardneri (F)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.73	0.73	6	104.13	104.13	1.4	-	0.799	6	0.73	0.73	6	104.13	104.13	1.4	-	0.799	6	0.73	0.73	6	104.13	104.13	1.4	-	0.799
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.25	0.25		34.71	34.71		-			0.25	0.25		34.71	34.71		-			0.25	0.25		34.71	34.71		-	
Fisher's		Power	---		Power-50%		---	P-value		0.444 y	Power	---		Power-50%		---	P-value		0.444 y	Power	---		Power-50%		---	P-value		0.444 y
Stouffer's		Power	---		Power-50%		---	P-value		0.328	Power	---		Power-50%		---	P-value		0.328	Power	---		Power-50%		---	P-value		0.328
50389C/50389	2	6	0.33	0.33	6	0.03	0.03	1.3	+	0.857	6	0.32	0.32	6	0.03	0.03	1.3	-	0.860	6	0.32	0.32	6	0.03	0.03	1.3	+	0.860
51091C/51091	2	6	325.10	325.10	6	0.00	0.00	1.4	+	0.363	6	325.10	325.10	6	0.00	0.00	1.4	-	0.363	6	325.10	325.10	6	0.00	0.00	1.4	+	0.363
62802C/50226	2	6	148.77	148.45	6	4.75	4.75	1.4	+	0.168	6	148.68	148.36	6	4.75	4.75	1.4	-	0.168	6	148.68	148.36	6	4.75	4.75	1.4	+	0.168
Habitat Means			158.07	157.96		1.59	1.59		+			158.03	157.93		1.59	1.59		+			158.03	157.93		1.59	1.59		+	
Fisher's		Power	0.019		Power-50%		0.017	P-value		0.122	Power	0.025		Power-50%		0.018	P-value		0.123	Power	0.020		Power-50%		0.020	P-value		0.123
Stouffer's		Power	---		Power-50%		0.113	P-value		0.072	Power	---		Power-50%		---	P-value		0.072	Power	---		Power-50%		---	P-value		0.072
50389C/50389	3	5	0.00	0.00	6	58.05	43.85	1.2	-	0.243	5	0.00	0.00	6	58.05	43.85	1.2	-	0.243	5	0.00	0.00	6	58.05	43.85	1.2	-	0.243
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	3	6	3.24	2.28	6	415.92	289.59	1.0	-	0.186	6	3.24	2.28	6	415.35	289.54	1.0	-	0.186	6	3.24	2.28	6	415.35	289.54	1.0	-	0.186
Habitat Means			1.08	0.76		157.99	111.15		-			1.08	0.76		157.80	111.13		-			1.08	0.76		157.80	111.13		-	
Fisher's		Power	0.105		Power-50%		0.002	P-value		0.111	Power	0.107		Power-50%		0.005	P-value		0.111	Power	0.108		Power-50%		0.108	P-value		0.111
Stouffer's		Power	---		Power-50%		0.001	P-value		0.065	Power	---		Power-50%		---	P-value		0.065	Power	---		Power-50%		---	P-value		0.065

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

		Petalonia fascia (AE)								Morphological Group - Coarse Filamentous Browns								Total Dictyosiphon (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.02	0.02	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.08	0.08	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.03	0.03		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.136	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

Table C-3.95. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Dictyosiphon foeniculaceus (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.655	
Stouffer's		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500	
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.08	0.08	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.03	0.03		0.00	0.00			
Fisher's		Power	---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.223	
Stouffer's		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.136	
50389C/50389	3	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.655	
Stouffer's		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500	

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	*Elachista fucicola* (AE) N	C	SE	N	O	SE	CV	D	P	*Pilayella sp.* (AE) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.655	
Stouffer's		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500	
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.655		Power	---		Power-50%	---	P-value		0.655	
Stouffer's		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500		Power	---		Power-50%	---	P-value		0.500	
50389C/50389	3	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
62802C/50226	3	6	0.00	0.00	6	0.57	0.57	1.4	-	0.362	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.57	0.57	1.4	-	0.362
Habitat Means			0.00	0.00		0.19	0.19		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.19	0.19		-	
Fisher's		Power	*0.000*		Power-50%	---	*P-value*		*0.402*		Power	---		Power-50%	---	P-value		0.655		Power	0.000		Power-50%	0.000	P-value		0.402	
Stouffer's		Power	0.000		Power-50%	---	P-value		0.278		Power	---		Power-50%	---	P-value		0.500		Power	0.000		Power-50%	---	P-value		0.278	

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

Table C-3.95. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

	Morphological Group - Saccate Browns								Leathesia difformis (A)															
	N	C	--	--	S	SE	CV	D	P	N	C	SE	N	C	SE	C'		N	C	SE	N	C	SE	CV	D	P
50389C/50389 1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
51091C/51091 1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
62802C/50226 1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o								
Fisher's	Power	---	Power-50%		---	P-value			0.655	Power	---	Power-50%	---	P-value	0.655	Power	---	Power-50%	---	P-value						
Stouffer's	Power	---	Power-50%		---	P-value			0.500	Power	---	Power-50%	---	P-value	0.500	Power	---	Power-50%	---	P-value						
50389C/50389 2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
51091C/51091 2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
62802C/50226 2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o								
Fisher's	Power	---	Power-50%		---	P-value			0.655	Power	---	Power-50%	---	P-value	0.655	Power	---	Power-50%	---	P-value						
Stouffer's	Power	---	Power-50%		---	P-value			0.500	Power	---	Power-50%	---	P-value	0.500	Power	---	Power-50%	---	P-value						
50389C/50389 3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000								
51091C/51091 3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
62802C/50226 3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o								
Fisher's	Power	---	Power-50%		---	P-value			0.655	Power	---	Power-50%	---	P-value	0.655	Power	---	Power-50%	---	P-value						
[illegible]	[illegible]		[illegible]			[illegible]			0.500	[illegible]		[illegible]		[illegible]	0.500	[illegible]		[illegible]		[illegible]						

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

Table C-3.96. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.305	Power	---		Power-50%		---	P-value		0.305	Power	---		Power-50%		---	P-value		0.305
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	5	0.00	0.00	6	1.65	1.57	1.5	-	0.342	5	0.00	0.00	6	0.00	0.00		o	1.000	5	0.00	0.00	6	0.00	0.00		o	1.000
51091C/51091	3	6	0.00	0.00	6	*0.00*	*0.00*		*o*	*1.000*	6	*0.00*	*0.00*	6	*0.00*	*0.00*		*o*	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
62802C/50226	3	6	2.00	2.00	6	8.27	8.27	1.2	-	0.937	6	2.00	2.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		o	1.000
Habitat Means			0.67	0.67		3.31	3.28		-			0.67	0.67		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		---	P-value		0.376	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.009		Power-50%		---	P-value		0.279	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500

1a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Porphyra sp. (A)								Tokidadendron kurilensis (A)								Morphological Group - Coarse Filamentous Reds							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	5	0.00	0.00	6	0.00	0.00		o	1.000	5	0.00	0.00	6	0.00	0.00		o	1.000	5	0.00	0.00	6	1.58	1.58	1.6	-	0.363
51091C/51091	3	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000
62802C/50226	3	6	2.00	2.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	8.27	8.27	1.4	-	0.363
Habitat Means			0.67	0.67		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		3.28	3.28		-	
Fisher's		Power	---		Power-50%		---	*P-value*		*0.403*	*Power*	---		*Power-50%*		---	*P-value*		0.655	*Power*	---		Power-50%		---	P-value		0.223
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.136

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

Table C-3.96. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	5	0.00	0.00	6	1.58	1.58	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	6	8.27	8.27	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		3.28	3.28		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.136	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
50389C/50389	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.07	0.07	1.6	-	0.363	5	0.00	0.00	6	0.07	0.07	1.6	-	0.363
51091C/51091	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.02	0.02		-			0.00	0.00		0.02	0.02		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.305	Power	---		Power-50%		---	P-value		0.305

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

Table C-3.96. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

Site Pair	WUD	Morphological Group - Saccate Reds							Total Halosaccion (A)								Halosaccion glandiforme (A)							
		N	C	CI	N	C	CI	D	P	N	C	CI	N	C	CI	D	P	N	C	CI	N	C	CI	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
62802C/50226	1	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
Habitat Means			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o	
Fisher's		Power	---		Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.655	
Stouffer's		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500	
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
62802C/50226	2	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
Habitat Means			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o	
Fisher's		Power	---		Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.655	
Stouffer's		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500	
50389C/50389	3	5	0.00	0.00	6	0.00	0.00	- o	1.000	5	0.00	0.00	6	0.00	0.00	- o	1.000	5	0.00	0.00	6	0.00	0.00	- o	1.000
51091C/51091	3	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
62802C/50226	3	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000	6	0.00	0.00	6	0.00	0.00	- o	1.000
Habitat Means			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o			0.00	0.00		0.00	0.00	o	
Fisher's		Power	---		Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.655	
Stouffer's		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.500	

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

Table C-3.97. Algal Biomass. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Algal Taxa Richness (a) N	C	SE	N	O	SE	CV	D	P	Total Algae N	C	SE	N	O	SE	CV	D	P	Perennials (P) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.67	0.33	-		---	0	--	--	3	195.60	173.25	-		---	0	--	--	3	195.60	173.25	-		---
50981C/50981	1	0	--	--	3	0.33	0.33	-		---	0	--	--	3	5.73	5.73	-		---	0	--	--	3	5.73	5.73	-		---
Habitat Means			--	--		0.50	0.33					--	--		100.67	89.49					--	--		100.67	89.49			
Fisher's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.33	0.33	-		---	0	--	--	3	298.10	298.10	-		---	0	--	--	3	298.10	298.10	-		---
50981C/50981	2	0	--	--	3	1.33	0.33	-		---	0	--	--	3	78.27	75.22	-		---	0	--	--	3	77.50	74.45	-		---
Habitat Means			--	--		0.83	0.33					--	--		188.18	186.66					--	--		187.80	186.28			
Fisher's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	2.00	--	-		---	0	--	--	1	321.71	--	-		---	0	--	--	1	321.70	--	-		---
50981C/50981	3	0	--	--	3	1.67	0.67	-		---	0	--	--	3	225.90	124.96	-		---	0	--	--	3	215.93	115.43	-		---
Habitat Means			--	--		1.83	0.67					--	--		273.81	124.96					--	--		268.82	115.43			
Fisher's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---

(a) 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.

Site Pair	MVD	Annuals (A) N	C	SE	N	O	SE	CV	D	P	Ephemerals (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
50981C/50981	2	0	--	--	3	0.77	0.77	-		---	0	--	--	3	0.77	0.77	-		---									
Habitat Means			--	--		0.38	0.38					--	--		0.38	0.38												
Fisher's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
50981C/50221	3	0	--	--	1	0.01	--	-		---	0	--	--	1	0.01	--	-		---									
50981C/50981	3	0	--	--	3	9.97	9.97	-		---	0	--	--	3	9.97	9.97	-		---									
Habitat Means			--	--		4.99	9.97					--	--		4.99	9.97												
Fisher's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			
Stouffer's		Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			---	Power ---			Power-50%		--- P-value			

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

Table C-3.98. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Estuarine. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	MVD	Total Chlorophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group - Bladed Greens N	C	SE	N	O	SE	CV	D	P	Kornmannia leptoderma (AE) N	C	SE	N	O	SE	CV	D	P
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.77	0.77	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.38	0.38					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Monostroma/Ulvaria (AE) (b) N	C	SE	N	O	SE	CV	D	P	Total Ulva (AE) N	C	SE	N	O	SE	CV	D	P	Ulva spp. (AE) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(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-3.98. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Estuarine. September 1989. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Chaetomorpha melagonium not included.

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

Table C-3.98. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Estuarine. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Tubular and Saccate Greens								Total Blidingia/Enteromorpha (AE)								Blidingia/Enteromorpha spp. (AE) (b)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.77	0.77	-		---	0	--	--	3	0.77	0.77	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.38	0.38					--	--		0.38	0.38					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Enteromorpha clathrata (AE)								Enteromorpha intestinalis (AE)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.77	0.77	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.38	0.38			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.99. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Estuarine. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus cottonii (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	195.60	173.25	-		---	0	--	--	3	195.60	173.25	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	5.73	5.73	-		---	0	--	--	3	5.73	5.73	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		100.67	89.49					--	--		100.67	89.49					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	298.10	298.10	-		---	0	--	--	3	298.10	298.10	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	77.50	74.45	-		---	0	--	--	3	77.50	74.45	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		187.80	186.28					--	--		187.80	186.28					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	321.71	--	-		---	0	--	--	1	321.70	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	220.73	120.01	-		---	0	--	--	3	210.77	110.51	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		271.22	120.01					--	--		266.23	110.51					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Fucus gardneri (P)								Petalonia fascia (AE)								Morphological Group - Coarse Filamentous Browns							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
[illegible]																												
50981C/50221	1	0	--	--	3	195.60	173.25	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	5.73	5.73	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		100.67	89.49					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	298.10	298.10	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	77.50	74.45	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		187.80	186.28					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	321.70	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	210.77	110.51	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		266.23	110.51					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.99. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Estuarine. September 1989. (Continued.)

Site Pair	MWU	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MWU	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.01	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.01	--	-		---
50981C/50981	3	0	--	--	3	9.97	9.97	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	9.97	9.97	-		---
Habitat Means			--	--		4.99	9.97					--	--		0.00	0.00					--	--		4.99	9.97			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.99. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Estuarine. September 1989. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	*Morphological Group - Crustose Browns* N	C	SE	N	O	SE	CV	D	P	Ralfsia fungiformis (P) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---									
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

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

Table C-3.100. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	2	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
50981C/50221	1	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
50981C/50981	1	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
C15.1C/C15.1	2	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
50981C/50221	2	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
50981C/50981	2	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
C15.1C/C15.1	3	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
50981C/50221	3	0	--	--	1	0.00	--	-	---		0	--	--	1	0.00	--	-	---		0	--	--	1	0.00	--	-	---	
50981C/50981	3	0	--	--	3	5.17	5.17	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
Habitat Means			--	--		2.58	5.17					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

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

		Total Palmaria (A)								Palmaria spp. (A)								Palmaria callophylloides (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50981C/50221	1	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
50981C/50981	1	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
C15.1C/C15.1	2	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
50981C/50221	2	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
50981C/50981	2	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
C15.1C/C15.1	3	0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---		0	--	--	0	--	--	-	---	
50981C/50221	3	0	--	--	1	0.00	--	-	---		0	--	--	1	0.00	--	-	---		0	--	--	1	0.00	--	-	---	
50981C/50981	3	0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---		0	--	--	3	0.00	0.00	-	---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

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

Table C-3.100. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. September 1989. (Continued.)

Site Pair	MVD	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---

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

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P
[illegible]	1	0			0						0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	*0.00*	*0.00*	-		---	0	--	--	3	*0.00*	*0.00*	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	5.17	5.17	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		2.58	5.17					--	--		0.00	0.00			
Fisher's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---
Stouffer's		Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---	Power ---			Power-50%		---	P-value		---

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

Table C-3.100. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. September 1989. (Continued.)

Site Pair	MVD	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	5.17	5.17	-		---	0	--	--	3	5.17	5.17	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		2.58	5.17					--	--		2.58	5.17					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Neorhodomela larix not included.

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

Table C-3.100. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Antithamnion/Antithamnionella (A) (b) N	C	SE	N	O	SE	CV	D	P	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Genera not separated.

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

Site Pair	MVD	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
50981C/50981	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

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

Table C-3.100. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. September 1989. (Continued.)

		Halosaccion glandiforme (A)																							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---																		
50981C/50221	1	0	--	--	3	0.00	0.00	-		---																		
50981C/50981	1	0	--	--	3	0.00	0.00	-		---																		
Habitat Means			--	--		0.00	0.00																					
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	0	--	--	0	--	--	-		---																		
50981C/50221	2	0	--	--	3	0.00	0.00	-		---																		
50981C/50981	2	0	--	--	3	0.00	0.00	-		---																		
Habitat Means			--	--		0.00	0.00																					
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	0	--	--	0	--	--	-		---																		
50981C/50221	3	0	--	--	1	0.00	--	-		---																		
50981C/50981	3	0	--	--	3	0.00	0.00	-		---																		
Habitat Means			--	--		0.00	0.00																					
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.101. Algal Biomass. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	3.00	0.58	6	1.17	0.79	0.3	+	0.091	6	324.86	150.86	6	140.82	84.14	0.5	+	0.312	6	296.15	133.01	6	140.82	84.14	0.5	-	0.347
50981C/50221	1	6	2.83	1.08	6	2.50	1.06	0.4	+	0.830	6	306.11	162.33	6	90.94	49.98	0.6	+	0.234	6	209.32	99.40	6	85.91	50.45	0.5	-	0.294
50981C/50981	1	6	2.83	1.08	6	1.17	0.65	0.4	ı	0.216	6	306.11	162.33	6	24.90	14.95	0.7	+	0.198	6	209.32	99.40	6	20.12	14.92	0.6	-	0.080
Habitat Means			2.89	0.91		1.61	0.83		+			312.36	158.51		85.56	49.69		+			238.26	110.60		82.28	49.84		-	
Fisher's		Power	---		Power-50%		---	P-value	0.054		Power	---		Power-50%		---	P-value	0.049		Power	---		Power-50%		---	P-value	0.032	
Stouffer's		*Power*	---		Power-50%		0.819	P-value	0.035		Power	---		Power-50%		---	P-value	0.022		Power	---		Power-50%		---	P-value	0.016	
C15.1C/C15.1	2	6	3.00	0.52	6	2.67	0.99	0.3	+	0.771	6	600.64	133.56	6	794.29	375.67	0.4	-	0.638	6	571.52	129.08	6	792.37	374.83	0.4	-	0.590
50981C/50221	2	6	4.33	1.28	4	3.75	1.38	0.3	+	0.771	6	571.83	294.15	4	1797.92	1428.55	0.7	-	0.332	6	182.39	97.58	4	1789.82	1429.61	0.8	-	0.346
50981C/50981	2	6	4.33	1.28	6	4.17	0.79	0.3	ı	0.914	6	571.83	294.15	6	408.62	127.94	0.5	+	0.622	6	182.39	97.58	6	253.74	98.62	0.4	-	0.618
Habitat Means			3.89	1.03		3.53	1.05		ı			581.43	240.62		1000.28	644.05		-			312.10	108.08		945.31	634.35		-	
Fisher's		Power	0.106		Power-50%		0.857	P-value	0.496		Power	0.015		Power-50%		0.188	P-value	0.357		Power	0.033		Power-50%		0.033	P-value	0.217	
Stouffer's		Power	0.115		Power-50%		0.890	P-value	0.346		Power	0.018		Power-50%		0.268	P-value	0.292		Power	0.048		Power-50%		0.198	P-value	0.127	
C15.1C/C15.1	3	6	4.33	0.76	5	2.00	0.63	0.2	-	0.047	6	651.79	252.74	5	637.34	513.02	0.6	+	0.979	6	337.79	119.60	5	636.98	512.66	0.7	-	0.550
50981C/50221	3	5	3.20	1.46	1	3.00	--	-	+	---	5	354.66	241.80	1	67.93	--	-	ı	---	5	239.82	162.03	1	67.91	--	-	+	---
50981C/50981	3	5	3.20	1.46	3	4.67	1.45	0.4	-	0.533	5	354.66	241.80	3	624.61	611.55	0.8	-	0.642	5	239.82	162.03	3	45.49	42.97	1.0	+	0.408
Habitat Means			3.58	1.23		3.22	1.04		+			453.71	245.45		443.30	562.29		-			272.48	147.89		250.13	277.82		ı	
Fisher's		Power	---		Power-50%		---	P-value	0.087		Power	0.014		Power-50%		0.076	P-value	0.460	y	Power	0.023		Power-50%		0.023	P-value	0.430	
Stouffer's		Power	0.081		Power-50%		0.379	P-value	0.168		Power	0.016		Power-50%		0.135	P-value	0.378		Power	0.048		Power-50%		0.080	P-value	0.435	

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

ı At least one site pair 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.

		Annuals (A)								Ephemerals (AE)																	
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	28.71	21.25	6	0.00	0.00	1.0	ı	0.006	6	28.17	21.20	6	0.00	0.00	1.1	+	0.241									
50981C/50221	1	6	96.79	64.24	6	5.04	3.26	0.9	+	0.793	6	96.49	64.13	6	5.04	3.26	0.9	+	0.794									
50981C/50981	1	6	96.79	64.24	6	4.79	3.20	0.9	-	0.799	6	96.49	64.13	6	4.34	3.28	0.9	ı	0.724									
Habitat Means			74.10	49.91		3.28	2.16		+			73.72	49.82		3.12	2.18		+										
Fisher's		Power	---		Power-50%		---	P-value	0.019		Power	0.283		Power-50%		0.068	P-value	0.230		Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		0.209	P-value	0.031		Power	0.517		Power-50%		0.202	P-value	0.151		Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	6	29.12	14.87	6	1.92	0.98	0.7	+	0.251	6	28.15	14.83	6	0.72	0.72	0.7	-	0.028									
50981C/50221	2	6	389.44	214.44	4	8.10	3.79	0.9	ı	0.114	6	354.60	223.18	4	5.28	2.90	1.1	-	0.877									
50981C/50981	2	6	389.44	214.44	6	154.89	117.73	0.6	+	0.360	6	354.60	223.18	6	154.79	117.74	0.7	-	0.447									
Habitat Means			269.33	147.91		54.97	40.83		+			245.79	153.73		53.60	40.45		-										
Fisher's		Power	---		Power-50%		---	P-value	0.038		Power	---		Power-50%		---	P-value	0.040		Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		0.125	P-value	0.018		Power	---		Power-50%		---	P-value	0.036		Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	6	314.00	155.44	5	0.36	0.36	0.8	+	0.002	6	313.70	155.22	5	0.00	0.00	0.8	+	0.099									
50981C/50221	3	5	114.84	88.35	1	0.02	--	-	+	---	5	114.68	88.19	1	0.01	--	-	+	---									
50981C/50981	3	5	114.84	88.35	3	579.13	568.59	0.9	-	0.323	5	114.68	88.19	3	579.11	568.59	0.9	-	0.323									
Habitat Means			181.23	110.71		193.17	284.48		+			181.02	110.53		193.04	284.30		+										
Fisher's		Power	---		Power-50%		---	P-value	0.007	y	Power	0.077		Power-50%		0.308	P-value	0.174	y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		0.262	P-value	0.070		Power	0.117		Power-50%		0.475	P-value	0.320		Power	---		Power-50%		---	P-value		

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

Table C-3.102. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Estuarine. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	3.85	2.45	6	0.00	0.00	0.9	+	0.176	6	3.67	2.35	6	0.00	0.00	0.9	+	0.180	6	1.58	1.58	6	0.00	0.00	1.4	+	0.363
50981C/50221	1	6	8.59	7.28	6	4.87	3.29	0.8	+	0.651	6	0.13	0.13	6	0.15	0.13	0.9	-	0.933	6	0.00	0.00	6	0.15	0.13	1.3	-	0.311
50981C/50981	1	6	8.59	7.28	6	4.34	3.28	0.9	+	0.605	6	0.13	0.13	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			7.01	5.67		3.07	2.19		+			1.31	0.87		0.05	0.04		+			0.53	0.53		0.05	0.04		-	
Fisher's		Power	0.092		Power-50%		0.123	P-value		0.148	Power	0.067		Power-50%		0.280	P-value		0.148	Power	0.000		Power-50%		0.000	P-value		0.480 y
Stouffer's		Power	---		Power-50%		0.310	P-value		0.090	Power	0.179		Power-50%		0.388	P-value		0.105	Power	0.000		Power-50%		---	P-value		0.476
C15.1C/C15.1	2	6	1.47	1.33	6	0.72	0.72	1.0	+	0.631	6	1.47	1.33	6	0.72	0.72	1.0	+	0.631	6	0.13	0.13	6	0.00	0.00	1.2	+	0.308
50981C/50221	2	6	19.36	12.76	4	3.15	2.90	1.0	+	0.344	6	0.15	0.15	4	0.14	0.14	1.0	+	0.974	6	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	6	19.36	12.76	6	150.36	113.43	1.0	-	0.133	6	0.15	0.15	6	149.24	113.01	1.1	-	0.016	6	0.00	0.00	6	0.13	0.13	1.4	-	0.363
Habitat Means			13.39	8.95		51.41	39.02		+			0.59	0.54		50.03	37.96		+			0.04	0.04		0.04	0.04		+	
Fisher's		Power	0.014		Power-50%		0.229	P-value		0.427 y	Power	0.001		Power-50%		0.140	P-value		0.709xy	Power	0.000		Power-50%		0.000	P-value		0.478 y
Stouffer's		Power	0.079		Power-50%		0.458	P-value		0.517	Power	0.000		Power-50%		0.583	P-value		0.864	Power	0.000		Power-50%		0.000	P-value		0.475
C15.1C/C15.1	3	6	47.16	28.05	5	0.00	0.00	0.9	+	0.154	6	44.88	28.68	5	0.00	0.00	1.0	+	0.178	6	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	5	12.02	10.63	1	0.01	--	-	+	---	5	6.12	6.12	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	+	---
50981C/50981	3	5	12.02	10.63	3	567.41	557.44	1.0	-	0.091	5	6.12	6.12	3	560.77	560.77	1.0	-	0.587	5	0.00	0.00	3	0.00	0.00	1.8	+	0.374
Habitat Means			23.74	16.44		189.14	278.72		-			19.04	13.64		186.92	280.38		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	0.035		Power-50%		0.039	P-value		0.175	Power	0.005		Power-50%		0.005	P-value		0.237 y	Power	---		Power-50%		---	P-value		0.315
Stouffer's		Power	0.004		Power-50%		0.100	P-value		0.426	Power	0.022		Power-50%		0.015	P-value		0.285	Power	---		Power-50%		---	P-value		0.265

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	2.08	2.08	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.13	0.13	6	0.00	0.00	1.4	+	0.674	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.13	0.13	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.78	0.78		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.174	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.098	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	1.34	1.34	6	0.13	0.13	1.3	+	0.876	6	0.00	0.00	6	0.58	0.58	1.4	-	0.363	6	0.00	0.00	6	0.58	0.58	1.4	-	0.363
50981C/50221	2	6	0.15	0.15	4	0.14	0.14	1.0	+	0.974	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.15	0.15	6	149.10	113.04	1.1	-	0.073	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.55	0.55		49.79	37.77		+			0.00	0.00		0.19	0.19		-			0.00	0.00		0.19	0.19		-	
Fisher's		Power	0.000		Power-50%		0.054	P-value		0.788xy	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.000		Power-50%		0.331	P-value		0.823	Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.300
C15.1C/C15.1	3	6	44.83	28.66	5	0.00	0.00	1.0	+	0.179	6	0.05	0.05	5	0.00	0.00	1.6	-	0.363	6	0.05	0.05	5	0.00	0.00	1.6	-	0.363
50981C/50221	3	5	3.08	3.08	1	0.00	--	-	+	---	5	3.04	3.04	1	0.00	--	-	-	---	5	3.04	3.04	1	0.00	--	-	-	---
50981C/50981	3	5	3.08	3.08	3	560.77	560.77	1.0	-	0.563	5	3.04	3.04	3	0.00	0.00	1.8	-	0.374	5	3.04	3.04	3	0.00	0.00	1.8	-	0.374
Habitat Means			17.00	11.61		186.92	280.38		+			2.04	2.04		0.00	0.00		+			2.04	2.04		0.00	0.00		+	
Fisher's		Power	0.005		Power-50%		0.005	P-value		0.240 y	Power	---		Power-50%		---	P-value		0.149	Power	---		Power-50%		---	P-value		0.149
Stouffer's		Power	0.021		Power-50%		0.015	P-value		0.294	Power	---		Power-50%		---	P-value		0.102	Power	---		Power-50%		---	P-value		0.102

(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-3.102. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Estuarine. June 1990. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.89	0.62	6	0.00	0.00	1.0	+	0.278	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.89	0.62	6	0.00	0.00	1.0	+	0.210	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.59	0.41		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.226		Power-50%		0.149	P-value		0.132	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.089	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.70	0.44	4	0.00	0.00	1.1	+	0.175	6	0.03	0.03	4	0.00	0.00	1.7	+	0.363
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.70	0.44	6	0.00	0.00	0.9	+	0.175	6	0.03	0.03	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.47	0.30		0.00	0.00		+			0.02	0.02		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		0.223
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.059	Power	---		Power-50%		---	P-value		0.147
C15.1C/C15.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
50981C/50981	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.260	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.28	0.28	6	0.00	0.00	1.4	+	0.363	6	0.28	0.28	6	0.00	0.00	1.4	+	0.363	6	0.61	0.61	6	0.00	0.00	1.4	·	0.619
50981C/50981	1	6	0.28	0.28	6	0.00	0.00	1.4	·	0.363	6	0.28	0.28	6	0.00	0.00	1.4	+	0.363	6	0.61	0.61	6	0.00	0.00	1.4	·	0.363
Habitat Means			0.19	0.19		0.00	0.00		+			0.19	0.19		0.00	0.00		+			0.41	0.41		0.00	0.00		·	
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.308
Stouffer's		Power	---		Power-50%		---	P-value		0.147	Power	---		Power-50%		---	P-value		0.147	Power	---		Power-50%		---	P-value		0.208
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.67	0.42	4	0.00	0.00	1.1	+	0.175	6	0.67	0.42	4	0.00	0.00	1.1	·	0.175	6	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.67	0.42	6	0.00	0.00	0.9	+	0.175	6	0.67	0.42	6	0.00	0.00	0.9	·	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.44	0.28		0.00	0.00		-			0.44	0.28		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.085	Power	---		Power-50%		---	P-value		0.085	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		0.362	P-value		0.059	Power	---		Power-50%		---	P-value		0.059	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363
50981C/50221	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
50981C/50981	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.260

(b) Chaetomorpha melagonium not included.

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

Table C-3.102. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Estuarine. June 1990. (Continued.)

Site Pair	MVD	Morphological Group - Tubular and Saccate Greens								Total Blidingia/Enteromorpha (AE)								Blidingia/Enteromorpha spp. (AE) (b)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.19	0.18	6	0.00	0.00	1.4	+	0.354	6	0.19	0.18	6	0.00	0.00	1.4	+	0.354	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
50981C/50221	1	6	7.57	7.12	6	4.72	3.32	0.9	+	0.724	6	7.57	7.12	6	4.72	3.32	0.9	+	0.724	6	7.57	7.12	6	4.72	3.32	0.9	-	0.724
50981C/50981	1	6	7.57	7.12	6	4.34	3.28	0.9	+	0.689	6	7.57	7.12	6	4.34	3.28	0.9	+	0.689	6	7.57	7.12	6	4.29	3.29	0.9	+	0.684
Habitat Means			5.11	4.81		3.02	2.20		+			5.11	4.81		3.02	2.20		+			5.05	4.74		3.00	2.20		+	
Fisher's		Power	0.045		Power-50%		0.140	P-value		0.267	Power	0.044		Power-50%		0.116	P-value		0.267	Power	0.022		Power-50%		0.022	P-value		0.270
Stouffer's		Power	0.111		Power-50%		0.299	P-value		0.166	Power	0.113		Power-50%		0.289	P-value		0.166	Power	0.086		Power-50%		0.293	P-value		0.168
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	18.51	12.72	4	3.01	2.94	1.0	+	0.363	6	18.51	12.72	4	3.01	2.94	1.0	-	0.363	6	1.26	1.00	4	2.97	2.96	0.9	-	0.537
50981C/50981	2	6	18.51	12.72	6	1.13	0.58	0.9	-	0.559	6	18.51	12.72	6	1.13	0.58	0.9	-	0.559	6	1.26	1.00	6	0.42	0.42	0.9	+	0.461
Habitat Means			12.34	8.48		1.38	1.18		-			12.34	8.48		1.38	1.18		-			0.84	0.67		1.13	1.12		+	
Fisher's		Power	0.009		Power-50%		0.020	P-value		0.290	Power	0.010		Power-50%		0.019	P-value		0.290	Power	0.002		Power-50%		0.002	P-value		0.550 y
Stouffer's		Power	0.017		Power-50%		0.040	P-value		0.194	Power	0.020		Power-50%		0.045	P-value		0.194	Power	0.003		Power-50%		0.128	P-value		0.472
C15.1C/C15.1	3	6	2.28	2.28	5	0.00	0.00	1.6	+	0.362	6	2.28	2.28	5	0.00	0.00	1.6	+	0.362	6	2.28	2.28	5	0.00	0.00	1.6	-	0.363
50981C/50221	3	5	5.90	4.59	1	0.01	--	-	+	---	5	5.90	4.59	1	0.01	--	-	+	---	5	0.00	0.00	1	0.01	--	-	-	---
50981C/50981	3	5	5.90	4.59	3	6.64	3.37	0.7	-	0.914	5	5.90	4.59	3	6.64	3.37	0.7	-	0.914	5	0.00	0.00	3	6.64	3.37	0.5	-	0.188
Habitat Means			4.69	3.82		2.22	1.69		+			4.69	3.82		2.22	1.69		+			0.76	0.76		2.22	1.69		-	
Fisher's		Power	0.022		Power-50%		0.035	P-value		0.327	Power	0.022		Power-50%		0.058	P-value		0.327	Power	0.278		Power-50%		0.278	P-value		0.274
Stouffer's		Power	0.052		Power-50%		0.112	P-value		0.285	Power	0.056		Power-50%		0.126	P-value		0.285	Power	0.114		Power-50%		---	P-value		0.386

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

Site Pair	MVD	Enteromorpha clathrata (AE)								Enteromorpha intestinalis (AE)																	
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.18	0.18	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363								
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.05	0.05	1.4	-	0.363								
Habitat Means			0.06	0.06		0.00	0.00		-			0.00	0.00		0.02	0.02		+									
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.519 y	Power	---		Power-50%		-	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
50981C/50221	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	17.25	11.87	4	0.04	0.04	1.2	-	0.522								
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	17.25	11.87	6	0.71	0.53	0.9	-	0.969								
Habitat Means			0.00	0.00		0.00	0.00		o			11.50	7.92		0.25	0.19		-									
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.098		Power-50%		0.190	P-value		0.479	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.163		Power-50%		0.290	P-value		0.348	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.0	+	0.175								
50981C/50221	3	5	0.00	0.00	1	0.00	--	-	o	---	5	5.90	4.59	1	0.00	--	-	+	---								
50981C/50981	3	5	0.00	0.00	3	0.00	0.00	1.0	-	0.423	5	5.90	4.59	3	0.00	0.00	1.4	-	0.268								
Habitat Means			0.00	0.00		0.00	0.00		-			3.93	3.06		0.00	0.00		+									
Fisher's		Power	---		Power-50%		---	P-value		0.343	Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.285	Power	---		Power-50%		---	P-value		0.041	Power	---		Power-50%		---	P-value		

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

Table C-3.103. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Estuarine. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair		Total Phaeophyta							Morphological Group - Bladed Browns								Fucus cottonii (P)							
		N	C	SE	N	O	SE	CV D P	N	C	SE	N	O	SE	CV D P		N	C	SE	N	O	SE	CV D P	
C15.1C/C15.1	1	6	320.62	149.07	6	140.82	84.14	0.5 + 0.318	6	296.15	133.01	6	140.82	84.14	0.5 - 0.347		6	0.00	0.00	6	0.00	0.00	1.4 - 0.363	
50981C/50221	1	6	297.51	158.78	6	86.07	50.58	0.6 + 0.233	6	209.32	99.40	6	85.91	50.45	0.5 - 0.294		6	0.00	0.00	6	0.00	0.00	- o 1.000	
50981C/50981	1	6	297.51	158.78	6	20.12	14.92	0.7 + 0.078	6	209.32	99.40	6	20.12	14.92	0.6 - 0.080		6	0.00	0.00	6	0.00	0.00	- o 1.000	
Habitat Means			305.21	155.54		82.34	49.88	+		238.26	110.60		82.28	49.84	-			0.00	0.00		0.00	0.00	-	
Fisher's		Power	---		Power-50%		---	P-value 0.025	Power	---		Power-50%		---	P-value 0.032		Power	---		Power-50%		---	P-value 0.403	
Stouffer's		Power	---		Power-50%		0.298	P-value 0.011	Power	---		Power-50%		---	P-value 0.016		Power	---		Power-50%		---	P-value 0.300	
C15.1C/C15.1	2	6	598.24	133.09	6	791.77	374.80	0.4 - 0.637	6	571.52	129.08	6	791.77	374.80	0.4 - 0.591		6	0.00	0.00	6	0.00	0.00	- o 1.000	
50981C/50221	2	6	521.07	291.00	4	1762.27	1435.01	0.7 - 0.328	6	182.17	97.36	4	1760.14	1435.42	0.8 - 0.353		6	0.00	0.00	4	0.00	0.00	1.7 - 0.363	
50981C/50981	2	6	521.07	291.00	6	258.18	97.86	0.6 + 0.412	6	182.17	97.36	6	253.74	98.62	0.4 - 0.617		6	0.00	0.00	6	0.00	0.00	1.4 - 0.363	
Habitat Means			546.79	238.37		937.41	635.89	-		311.95	107.93		935.22	636.28	-			0.00	0.00		0.00	0.00	-	
Fisher's		Power	0.012		Power-50%		0.217	P-value 0.384	Power	0.030		Power-50%		0.111	P-value 0.220		Power	---		Power-50%		---	P-value 0.223	
Stouffer's		Power	0.012		Power-50%		0.315	P-value 0.358	Power	0.044		Power-50%		0.191	P-value 0.128		Power	---		Power-50%		---	P-value 0.147	
C15.1C/C15.1	3	6	604.38	229.64	5	632.04	514.14	0.6 - 0.959	6	337.79	119.60	5	627.54	515.10	0.7 - 0.564		6	0.00	0.00	5	0.00	0.00	- o 1.000	
50981C/50221	3	5	315.09	217.85	1	67.91	--	- + ---	5	212.27	137.88	1	67.91	--	- + ---		5	0.00	0.00	1	0.00	--	- o ---	
50981C/50981	3	5	315.09	217.85	3	57.06	53.98	1.1 - 0.413	5	212.27	137.88	3	45.35	42.84	1.0 + 0.405		5	0.00	0.00	3	0.00	0.00	- o 1.000	
Habitat Means			411.52	221.78		252.34	284.06	-		254.11	131.78		246.94	278.97	+			0.00	0.00		0.00	0.00	o	
Fisher's		Power	0.095		Power-50%		0.084	P-value 0.347	Power	0.028		Power-50%		0.060	P-value 0.426		Power	---		Power-50%		---	P-value 0.597	
Stouffer's		Power	0.168		Power-50%		0.126	P-value 0.294	Power	0.053		Power-50%		0.100	P-value 0.428		Power	---		Power-50%		---	P-value 0.500	

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

Site Pair	MVD	Fucus gardneri (P)							Petalonia fascia (AE)								Morphological Group - Coarse Filamentous Browns							
		N	C	SE	N	O	SE	CV D P	N	C	SE	N	O	SE	CV D P		N	C	SE	N	O	SE	CV D P	
C15.1C/C15.1	1	6	296.15	133.01	6	140.82	84.14	0.5 + 0.347	6	0.00	0.00	6	0.00	0.00	- o 1.000		6	0.15	0.15	6	0.00	0.00	1.4 - 0.363	
50981C/50221	1	6	209.32	99.40	6	85.91	50.45	0.5 + 0.294	6	0.00	0.00	6	0.00	0.00	- o 1.000		6	0.02	0.02	6	0.00	0.00	1.4 - 0.363	
50981C/50981	1	6	209.32	99.40	6	20.12	14.92	0.6 + 0.080	6	0.00	0.00	6	0.00	0.00	- o 1.000		6	0.02	0.02	6	0.00	0.00	1.4 - 0.363	
Habitat Means			238.26	110.60		82.28	49.84	+		0.00	0.00		0.00	0.00	o			0.06	0.06		0.00	0.00	-	
Fisher's		Power	---		Power-50%		---	P-value 0.032	Power	---		Power-50%		---	P-value 0.655		Power	---		Power-50%		---	P-value 0.115	
Stouffer's		Power	---		Power-50%		0.308	P-value 0.016	Power	---		Power-50%		---	P-value 0.500		Power	---		Power-50%		---	P-value 0.058	
C15.1C/C15.1	2	6	571.52	129.08	6	791.77	374.80	0.4 - 0.591	6	0.00	0.00	6	0.00	0.00	- o 1.000		6	0.04	0.03	6	0.00	0.00	1.3 - 0.339	
50981C/50221	2	6	182.17	97.36	4	1760.14	1435.42	0.8 - 0.353	6	0.00	0.00	4	0.00	0.00	- o 1.000		6	2.95	2.58	4	0.00	0.00	1.5 + 0.304	
50981C/50981	2	6	182.17	97.36	6	253.74	98.62	0.4 - 0.617	6	0.00	0.00	6	0.00	0.00	- o 1.000		6	2.95	2.58	6	0.01	0.01	1.2 - 0.075	
Habitat Means			311.95	107.93		935.22	636.28	-		0.00	0.00		0.00	0.00	o			1.98	1.73		0.00	0.00	+	
Fisher's		Power	0.030		Power-50%		0.107	P-value 0.220	Power	---		Power-50%		---	P-value 0.655		Power	---		Power-50%		---	P-value 0.031	
Stouffer's		Power	0.042		Power-50%		0.166	P-value 0.128	Power	---		Power-50%		---	P-value 0.500		Power	---		Power-50%		---	P-value 0.015	
C15.1C/C15.1	3	6	337.79	119.60	5	627.54	515.10	0.7 - 0.564	6	0.00	0.00	5	0.00	0.00	- o 1.000		6	0.05	0.05	5	0.30	0.30	1.1 - 0.691	
50981C/50221	3	5	212.27	137.88	1	67.91	--	- + ---	5	0.00	0.00	1	0.00	--	- o ---		5	0.16	0.16	1	0.00	--	- + ---	
50981C/50981	3	5	212.27	137.88	3	45.35	42.84	1.0 + 0.405	5	0.00	0.00	3	0.00	0.00	- o 1.000		5	0.16	0.16	3	0.00	0.00	1.8 + 0.672	
Habitat Means			254.11	131.78		246.94	278.97	+		0.00	0.00		0.00	0.00	o			0.13	0.12		0.10	0.15	-	
Fisher's		Power	0.030		Power-50%		0.073	P-value 0.426	Power	---		Power-50%		---	P-value 0.597		Power	0.014		Power-50%		0.014	P-value 0.553	
Stouffer's		Power	0.055		Power-50%		0.123	P-value 0.428	Power	---		Power-50%		---	P-value 0.500		Power	0.039		Power-50%		0.097	P-value 0.493	

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

Table C-3.103. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Estuarine. June 1990. (Continued.)

	Total Dictyosiphon (A)								Dictyosiphon sinicola (A)								Myelophycus/Scytosiphon (A) (a)							
	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1 1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.13	0.13	6	0.00	0.00	1.4	+	0.363
50981C/50221 1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363
50981C/50981 1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	0.00	0.00	1.4	+	0.363
Habitat Means		0.00	0.00		0.00	0.00		o		0.00	0.00		0.00	0.00		o			0.06	0.06		0.00	0.00		+	
Fisher's	Power	---		Power-50%		---	P-value		0.655		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.115
Stouffer's	Power	---		Power-50%		---	P-value		0.500		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.058
C15.1C/C15.1 2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.04	0.03	6	0.00	0.00	1.3	+	0.339
50981C/50221 2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	0.00	0.00	4	0.00	0.00	-	o	1.000	6	2.95	2.58	4	0.00	0.00	1.5	+	0.304
50981C/50981 2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.95	2.58	6	0.01	0.01	1.2	+	0.075
Habitat Means		0.00	0.00		0.00	0.00		o		0.00	0.00		0.00	0.00		o			1.98	1.73		0.00	0.00		+	
Fisher's	Power	---		Power-50%		---	P-value		0.655		---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.031
Stouffer's	Power	---		Power-50%		---	P-value		0.500		---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.015
C15.1C/C15.1 3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.05	0.05	5	0.30	0.30	1.1	-	0.691
50981C/50221 3	5	0.00	0.00	1	0.00	--	-	o	---	0.00	0.00	1	0.00	--	-	o	---	5	0.16	0.16	1	0.00	--	-	-	---
50981C/50981 3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.16	0.16	3	0.00	0.00	1.8	-	0.672
Habitat Means		0.00	0.00		0.00	0.00		o		0.00	0.00		0.00	0.00		o			0.13	0.12		0.20	0.15		-	
Fisher's	Power	---		Power-50%		---	P-value		0.597		---		Power-50%		---	P-value		0.597	Power	0.017		Power-50%		0.017	P-value		0.553
Stouffer's	Power	---		Power-50%		---	P-value		0.500		---		Power-50%		---	P-value		0.500	Power	0.046		Power-50%		0.110	P-value		0.493

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

	Morphological Group - Fine Filamentous Browns								Blachista fucicola (AE)								Pilayella sp. (AE)							
	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1 1	6	24.32	19.15	6	0.00	0.00	1.1	+	0.280	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	24.32	19.15	6	0.00	0.00	1.1	+	0.280
50981C/50221 1	6	88.18	61.39	6	0.17	0.13	1.0	+	0.417	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	88.18	61.39	6	0.16	0.13	1.0	+	0.415
50981C/50981 1	6	88.18	61.39	6	0.00	0.00	1.0	+	0.210	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	88.18	61.39	6	0.00	0.00	1.0	+	0.210
Habitat Means		66.89	47.31		0.06	0.04		+			0.00	0.00		0.00	0.00		-			66.89	47.31		0.06	0.04		+	
Fisher's	Power	---		Power-50%		---	P-value		0.069	ow	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.068
Stouffer's	Power	---		Power-50%		0.171	P-value		0.033	ow	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.033
C15.1C/C15.1 2	6	26.69	15.10	6	0.00	0.00	0.8	+	0.006	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	26.69	15.10	6	0.00	0.00	0.8	+	0.006
50981C/50221 2	6	335.94	211.52	4	2.13	2.09	1.1	+	0.588	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	335.94	211.52	4	2.13	2.09	1.1	+	0.588
50981C/50981 2	6	335.94	211.52	6	4.43	4.42	0.9	+	0.376	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	335.94	211.52	6	4.43	4.43	0.9	+	0.291
Habitat Means		232.86	146.05		2.19	2.17		+			0.00	0.00		0.00	0.00		-			232.86	146.05		2.18	2.17		+	
Fisher's	Power	---		Power-50%		---	P-value		0.008	ow	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.007
Stouffer's	Power	---		Power-50%		0.174	P-value		0.008	ow	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.006
C15.1C/C15.1 3	6	266.53	137.96	5	0.00	0.00	0.8	+	0.111	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	266.53	137.96	5	0.00	0.00	0.8	+	0.111
50981C/50221 3	5	102.66	87.61	1	0.00	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---	5	102.66	87.61	1	0.00	--	-	+	---
50981C/50981 3	5	102.66	87.61	3	11.70	11.15	1.4	+	0.467	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	102.66	87.61	3	11.70	11.15	1.4	+	0.467
Habitat Means		157.28	104.39		3.90	5.58		+			0.00	0.00		0.00	0.00		o			157.28	104.39		3.90	5.58		+	
Fisher's	Power	---		Power-50%		---	P-value		0.069	ow	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.069
Stouffer's	Power	---		Power-50%		0.403	P-value		0.050	ow	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.050

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

Table C-3.103. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Estuarine. June 1990. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			*0.00*	*0.00*		*0.00*	*0.00*		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.403	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.300	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
50981C/50981	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500

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

Site Pair	MVD	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia fungiformis (P) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
50981C/50221	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000									
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			
C15.1C/C15.1	3	6	0.00	0.00	5	4.20	4.20	1.3	-	0.374	6	0.00	0.00	5	4.20	4.20	1.3	-	0.374									
50981C/50221	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---									
50981C/50981	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		1.40	2.10		-			0.00	0.00		1.40	2.10		-										
Fisher's		Power	---		Power-50%	---	P-value			0.315	Power	---		Power-50%	---	P-value			0.315	Power	---		Power-50%	---	P-value			
Stouffer's		Power	---		Power-50%	---	P-value			0.265	Power	---		Power-50%	---	P-value			0.265	Power	---		Power-50%	---	P-value			

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

Table C-3.104. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.38	0.38	6	0.01	0.01	1.4	+	0.715	6	0.38	0.38	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.45	0.45	1.4	-	0.679	6	0.00	0.00	6	0.45	0.45	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.15	0.15		+			0.13	0.13		0.15	0.15		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.391 y	Power		---		Power-50%		---	P-value	0.519 y	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.310	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500
C15.1C/C15.1	2	6	0.93	0.74	6	1.80	0.93	0.6	-	0.479	6	0.75	0.75	6	0.74	0.60	0.9	+	0.988	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	31.40	31.14	4	32.50	31.51	1.0	-	0.982	6	0.00	0.00	4	0.75	0.75	1.1	-	0.445	6	0.00	0.00	4	0.00	0.00	1.7	-	0.363
50981C/50981	2	6	31.40	31.14	6	0.08	0.08	1.4	+	0.405	6	0.00	0.00	6	0.08	0.08	1.4	-	0.699	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			21.25	21.01		11.46	10.84		-			0.25	0.25		0.52	0.48		-			0.00	0.00		0.00	0.00		+	
Fisher's	Power		0.017		Power-50%		0.120	P-value		0.578 y	Power		0.097		Power-50%		---	P-value	0.373	Power		---		Power-50%		---	P-value	0.223
Stouffer's	Power		0.029		Power-50%		0.587	P-value		0.524	Power		0.195		Power-50%		---	P-value	0.256	Power		---		Power-50%		---	P-value	0.147
C15.1C/C15.1	3	6	0.25	0.25	5	5.30	4.89	1.1	-	0.518	6	0.25	0.25	5	0.06	0.06	1.3	+	0.519	6	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	5	27.55	26.42	1	0.01	--	-	+	---	5	0.00	0.00	1	0.01	--	-	-	---	5	0.00	0.00	1	0.00	--	-	o	---
50981C/50981	3	5	27.55	26.42	3	0.14	0.13	1.7	+	0.643	5	0.00	0.00	3	0.00	0.00	1.0	-	0.423	5	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			18.45	17.70		1.82	2.51		-			0.08	0.08		0.02	0.03		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.008		Power-50%		0.028	P-value		0.481 y	Power		---		Power-50%		---	P-value	0.447 y	Power		---		Power-50%		---	P-value	0.597
Stouffer's	Power		0.012		Power-50%		0.082	P-value		0.448	Power		---		Power-50%		---	P-value	0.456	Power		---		Power-50%		---	P-value	0.500

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

		Total Palmaria (A)								Palmaria spp. (A)								Palmaria callophylloides (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	0.655	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.48	0.48	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.16	0.16		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.403	Power		---		Power-50%		---	P-value	0.655	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.300	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500
C15.1C/C15.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---	5	0.00	0.00	1	0.00	--	-	o	---
50981C/50981	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.597	Power		---		Power-50%		---	P-value	0.597	Power		---		Power-50%		---	P-value	0.597
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.500	Power		---		Power-50%		---	P-value	0.500

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

Table C-3.104. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1990. (Continued.)

Site Pair	MVD	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.48	0.48	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000	6	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.16	0.16		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value		0.403	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.300	Power		---		Power-50%		---	P-value	0.500
C15.1C/C15.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.06	0.06	1.3	-	0.374
50981C/50221	3	5	0.00	0.00	1	0.00	---	-	o	---	5	0.00	0.00	1	0.00	---	-	o	---	5	0.00	0.00	1	0.00	---	-	o	---
50981C/50981	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000	5	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.02	0.03		-	
Fisher's	Power		---		Power-50%		---	P-value		0.597	Power		---		Power-50%		---	P-value		0.597	Power		---		Power-50%		---	P-value	0.315
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.265

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

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.38	0.38	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.01	0.01	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.45	0.45	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.13	0.13		0.15	0.15		-			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		-	
Fisher's	Power		---		Power-50%		---	P-value		0.519 y	Power		---		Power-50%		---	P-value		0.301 y	Power		---		Power-50%		---	P-value	0.403
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.300	Power		---		Power-50%		---	P-value	0.300
C15.1C/C15.1	2	6	0.75	0.75	6	0.25	0.16	1.1	+	0.656	6	0.18	0.18	6	0.83	0.76	1.1	-	0.540	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	4	0.75	0.75	1.1	-	0.391	6	31.40	31.14	4	30.68	30.68	1.0	+	0.988	6	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	6	0.08	0.08	1.4	-	0.363	6	31.40	31.14	6	0.00	0.00	1.4	+	0.360	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.25	0.25		0.36	0.33		-			20.99	20.82		10.50	10.48		+			0.00	0.00		0.00	0.00		o	
Fisher's	Power		0.126		Power-50%		---	P-value		0.279	Power	0.005		Power-50%		0.038	P-value		0.485	Power		---		Power-50%		---	P-value	0.655
Stouffer's	Power		0.152		Power-50%		---	P-value		0.223	Power	0.051		Power-50%		0.285	P-value		0.427	Power		---		Power-50%		---	P-value	0.500
C15.1C/C15.1	3	6	0.25	0.25	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	5.24	4.90	1.2	-	0.345	6	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	5	0.00	0.00	1	0.01	---	-	-	---	5	27.55	26.42	1	0.00	---	-	-	---	5	0.00	0.00	1	0.00	---	-	o	---
50981C/50981	3	5	0.00	0.00	3	0.00	0.00	1.0	-	0.423	5	27.55	26.42	3	0.14	0.13	1.7	+	0.580	5	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.08	0.08		0.00	0.00		+			18.37	17.61		1.79	2.52		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---	P-value		0.422	Power	0.003		Power-50%		0.000	P-value		0.380 y	Power		---		Power-50%		---	P-value	0.597
Stouffer's	Power		---		Power-50%		---	P-value		0.470	Power	0.006		Power-50%		0.000	P-value		0.391	Power		---		Power-50%		---	P-value	0.500

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

Table C-3.104. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1990. (Continued.)

Site Pair	MVD	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
50981C/50221	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	1.4	-	0.363
50981C/50981	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	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.301
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.300
C15.1C/C15.1	2	6	0.00	0.00	6	0.23	0.23	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.18	0.18	6	0.00	0.00	1.4	-	0.363
50981C/50221	2	6	0.00	0.00	4	0.00	0.00		-	1.000	6	0.00	0.00	4	0.00	0.00		-	1.000	6	31.18	31.18	4	1.00	1.00	1.7	-	0.949
50981C/50981	2	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000	6	31.18	31.18	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o			20.85	20.85		0.33	0.33		+	
Fisher's		Power	---		Power-50%	---	P-value			0.403	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.216
Stouffer's		Power	---		Power-50%	---	P-value			0.300	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.139
C15.1C/C15.1	3	6	0.00	0.00	5	0.00	0.00		-	1.000	6	0.00	0.00	5	0.00	0.00		-	1.000	6	0.00	0.00	5	0.00	0.00		-	1.000
50981C/50221	*3*	*5*	*0.00*	*0.00*	*1*	*0.00*	---		*-*	---	5	0.00	0.00	1	0.00	---		-	---	5	0.00	0.00	1	0.00	---		-	---
50981C/50981	3	5	0.00	0.00	3	0.00	0.00		-	1.000	5	0.00	0.00	3	0.00	0.00		-	1.000	5	0.00	0.00	3	0.00	0.00	1.0	-	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.343
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.285

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

Site Pair	MVD	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	1.000
50981C/50221	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
50981C/50981	1	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.403	Power	---		Power-50%	---	P-value			0.403	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.300	Power	---		Power-50%	---	P-value			0.300	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.60	0.52	1.2	-	0.304	6	0.00	0.00	6	0.60	0.52	1.2	-	0.304	6	0.00	0.00	6	0.00	0.00		-	1.000
50981C/50221	2	6	0.22	0.22	4	29.68	29.68	1.1	-	0.588	6	0.22	0.22	4	29.68	29.68	1.1	-	0.588	6	0.00	0.00	4	0.00	0.00		-	1.000
50981C/50981	2	6	0.22	0.22	6	0.00	0.00	1.4	+	0.363	6	0.22	0.22	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		-	1.000
Habitat Means			0.14	0.14		10.09	10.07		-			0.14	0.14		10.09	10.07		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.018		Power-50%	---	P-value			0.358	Power	0.020		Power-50%	---	P-value			0.358	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	0.020		Power-50%	---	P-value			0.352	Power	0.026		Power-50%	---	P-value			0.352	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	3	6	0.00	0.00	5	5.24	4.90	1.2	-	0.345	6	0.00	0.00	5	5.24	4.90	1.2	-	0.345	6	0.00	0.00	5	0.00	0.00		-	1.000
50981C/50221	3	5	27.55	26.42	1	0.00	---		-	---	5	27.55	26.42	1	0.00	---		-	---	5	0.00	0.00	1	0.00	---		-	---
50981C/50981	3	5	27.55	26.42	3	0.13	0.13	1.7	+	0.391	5	27.55	26.42	3	0.13	0.13	1.7	+	0.391	5	0.00	0.00	3	0.00	0.00		-	1.000
Habitat Means			18.37	17.61		1.79	2.52		-			18.37	17.61		1.79	2.52		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	*0.003*		Power-50%	*0.000*	P-value		*0.413 y*		Power	0.004		Power-50%	0.000	P-value			0.413 y	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	0.008		Power-50%	0.000	P-value			0.476	Power	0.009		Power-50%	0.000	P-value			0.476	Power	---		Power-50%	---	P-value			0.500

(b) Neorhodomela larix not included.

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

Table C-3.104. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Reds									Antithamnion/Antithamnionella (A) (b)										Audouinella purpurea (AE)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000		6	0.00	0.00	6	0.00	0.00		- o	1.000	
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000		6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000		6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		+		
Fisher's		Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.655		Power	---		Power-50%		---	P-value		0.223	
Stouffer's		Power	---		Power-50%		---	P-value		0.147	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.147	
C15.1C/C15.1	2	6	0.00	0.00	6	0.24	0.23	1.4	-	0.360	6	0.00	0.00	6	0.00	0.00		- o	1.000		6	0.00	0.00	6	0.00	0.00		- o	1.000	
50981C/50221	2	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	0.00	0.00		- o	1.000		6	0.00	0.00	4	0.00	0.00		- o	1.000	
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363		6	0.00	0.00	6	0.00	0.00		- o	1.000	
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	0.000		Power-50%		---	P-value		0.222	Power	---		Power-50%		---	P-value		0.403		Power	---		Power-50%		---	P-value		0.655	
Stouffer's		Power	0.001		Power-50%		---	P-value		0.146	Power	---		Power-50%		---	P-value		0.300		Power	---		Power-50%		---	P-value		0.500	
C15.1C/C15.1	3	6	0.00	0.00	5	0.00	0.00	1.0	-	0.900	6	0.00	0.00	5	0.00	0.00		- o	1.000		6	0.00	0.00	5	0.00	0.00		- o	1.000	
50981C/50221	3	5	0.00	0.00	1	0.00	--		- o	---	5	0.00	0.00	1	0.00	--		- o	---		5	0.00	0.00	1	0.00	--		- o	---	
50981C/50981	3	5	0.00	0.00	3	0.00	0.00	1.0	-	0.423	5	0.00	0.00	3	0.00	0.00	1.0	-	0.423		5	0.00	0.00	3	0.00	0.00		- o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.319	Power	---		Power-50%		---	P-value		0.343		Power	---		Power-50%		---	P-value		0.597	
Stouffer's		Power	---		Power-50%		---	P-value		0.256	Power	---		Power-50%		---	P-value		0.285		Power	---		Power-50%		---	P-value		0.500	

(b) Genera not separated.

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

Site Pair	MVD	Polysiphonia/Pterosiphonia (A) (a)									Morphological Group - Saccate Reds										Total Halosaccion (A)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000		6	0.00	0.00	6	0.00	0.00		- o	1.000	
50981C/50221	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000		6	0.00	0.00	6	0.00	0.00		- o	1.000	
50981C/50981	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000		6	0.00	0.00	6	0.00	0.00		- o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655		Power	---		Power-50%		---	P-value		0.655	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	
C15.1C/C15.1	2	6	0.00	0.00	6	0.24	0.23	1.4	-	0.360	6	0.00	0.00	6	0.00	0.00		- o	1.000		6	0.00	0.00	6	0.00	0.00		- o	1.000	
50981C/50221	2	6	0.00	0.00	4	0.00	0.00		- o	1.000	6	0.00	0.00	4	1.08	1.08	1.1	-	0.391		6	0.00	0.00	4	1.08	1.08	1.1	-	0.391	
50981C/50981	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000		6	0.00	0.00	6	0.00	0.00		- o	1.000	
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.36	0.36		-				0.00	0.00		0.36	0.36		-		
Fisher's		Power	0.000		Power-50%		---	P-value		0.401	Power	---		Power-50%		---	P-value		0.419		Power	---		Power-50%		---	P-value		0.419	
Stouffer's		Power	0.000		Power-50%		---	P-value		0.298	Power	---		Power-50%		---	P-value		0.310		Power	---		Power-50%		---	P-value		0.310	
C15.1C/C15.1	3	6	0.00	0.00	5	0.00	0.00	1.0	-	0.900	6	0.00	0.00	5	0.00	0.00		- o	1.000		6	0.00	0.00	5	0.00	0.00		- o	1.000	
50981C/50221	3	5	0.00	0.00	1	0.00	--		- o	---	5	0.00	0.00	1	0.00	--		- o	---		5	0.00	0.00	1	0.00	--		- o	---	
50981C/50981	3	5	0.00	0.00	3	0.00	0.00		- o	1.000	5	0.00	0.00	3	0.00	0.00		- o	1.000		5	0.00	0.00	3	0.00	0.00		- o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.561 y	Power	---		Power-50%		---	P-value		0.597		Power	---		Power-50%		---	P-value		0.597	
Stouffer's		Power	---		Power-50%		---	P-value		0.465	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	

(a) Genera not separated.

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

Table C-3.104. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. June 1990. (Continued.)

Site Pair	MVD	Halosaccion glandiforme (A)																											
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
50981C/50221	2	6	0.00	0.00	4	1.08	1.08	1.1	-	0.391																		
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.36	0.36		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.419	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.310	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000																		
50981C/50221	3	5	0.00	0.00	1	0.00	--	-	o	---																		
50981C/50981	3	5	0.00	0.00	3	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.105. Algal Biomass. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)							Total Algae							Perennials (P)						
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	2.00	0.68	6	1.17	0.40	0.4	+	0.318	6	332.08	216.48	6	961.71	574.52	0.7	-	0.329	6	212.62	164.62	6	961.65	574.50	0.7	-	0.239
50981C/50221	1	6	4.50	0.92	6	3.00	0.26	0.2	+	0.148	6	667.73	381.45	6	200.07	140.63	0.7	+	0.277	6	293.19	140.18	6	157.57	119.20	0.6	+	0.478
50981C/50981	1	6	4.50	0.92	5	2.40	0.68	0.2	+	0.111	6	667.73	381.45	5	40.62	28.61	0.8	+	0.093	6	293.19	140.18	5	24.86	24.74	0.7	+	0.027
Habitat Means			3.67	0.84		2.19	0.45		+			555.85	326.46		400.80	247.92		+			266.33	148.33		381.36	239.48		+	
Fisher's	Power		---		Power-50%		---	P-value		0.023	Power	0.170		Power-50%		0.140	P-value		0.107	Power	---		Power-50%		---	P-value		0.069 y
Stouffer's	Power		---		Power-50%		0.814	P-value		0.010	Power	0.168		Power-50%		0.210	P-value		0.151	Power	0.124		Power-50%		0.318	P-value		0.157
C15.1C/C15.1	2	6	2.50	0.50	6	0.83	0.31	0.2	+	0.018	6	1099.21	470.69	6	669.16	249.98	0.4	+	0.439	6	1063.27	450.74	6	669.16	249.98	0.4	+	0.462
50981C/50221	2	5	3.00	1.41	4	3.00	0.00	0.4	o	1.000	5	868.35	732.68	4	2521.24	1099.00	0.5	-	0.236	5	863.28	733.81	4	2430.71	1047.96	0.5	-	0.247
50981C/50981	2	5	3.00	1.41	6	4.00	0.82	0.3	-	0.538	5	868.35	732.68	6	175.58	127.01	0.9	+	0.920	5	863.28	733.81	6	150.89	113.60	0.9	+	0.708
Habitat Means			2.83	1.11		2.61	0.37		+			945.30	645.35		1121.99	491.99		+			929.94	639.45		1083.58	470.51		+	
Fisher's	Power		---		Power-50%		---	P-value		0.075	Power	0.060		Power-50%		0.264	P-value		0.565 y	Power	0.071		Power-50%		0.071	P-value		0.510 y
Stouffer's	Power		0.071		Power-50%		0.773	P-value		0.155	Power	0.055		Power-50%		0.339	P-value		0.571	Power	0.049		Power-50%		0.348	P-value		0.511
C15.1C/C15.1	3	2	2.00	0.00	5	1.00	0.55	0.4	+	0.142	2	500.31	475.61	5	305.73	242.99	0.8	+	0.701	2	490.25	485.65	5	305.07	242.35	0.8	+	0.716
50981C/50221	3	3	2.67	1.20	0	--	--	-		---	3	535.72	310.52	0	--	--	-		---	3	530.45	311.26	0	--	--	-		---
50981C/50981	3	3	2.67	1.20	5	4.40	1.29	0.4	-	0.404	3	535.72	310.52	5	573.59	230.47	0.5	-	0.924	3	530.45	311.26	5	462.18	215.99	0.5	+	0.859
Habitat Means			2.44	0.80		2.70	0.92		+			523.92	365.55		439.66	236.73		-			517.05	369.39		383.63	229.17		+	
Fisher's	Power		0.137		Power-50%		0.694	P-value		0.219 y	Power	0.105		Power-50%		0.218	P-value		0.503	Power	0.093		Power-50%		0.093	P-value		0.441
Stouffer's	Power		0.053		Power-50%		0.731	P-value		0.327	Power	0.109		Power-50%		0.243	P-value		0.419	Power	0.099		Power-50%		0.223	P-value		0.351

(a) 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.

		Annuals (A)							Ephemerals (AE)													
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	119.47	69.66	6	0.05	0.05	0.8	+	0.040	6	119.42	69.62	6	0.00	0.00	0.8	+	0.147									
50981C/50221	1	6	374.54	252.89	6	42.49	23.19	0.9	+	0.980	6	373.62	252.90	6	42.49	23.19	0.9	+	0.785									
50981C/50981	1	6	374.54	252.89	5	15.76	8.15	1.0	+	0.674	6	373.62	252.90	5	15.76	8.15	1.0	+	0.866									
Habitat Means			289.52	191.81		19.44	10.46		+			288.88	191.81		19.42	10.44		+										
Fisher's	Power		---		Power-50%		---	P-value		0.076	Power	0.578		Power-50%		0.183	P-value		0.187	Power	---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		0.127	P-value		0.075	Power	0.825		Power-50%		0.287	P-value		0.138	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	6	35.94	21.85	6	0.00	0.00	0.9	+	0.000	6	35.84	21.79	6	0.00	0.00	0.9	-	0.161									
50981C/50221	2	5	5.07	3.16	4	90.53	55.31	0.7	-	0.112	5	2.20	2.16	4	90.31	55.27	0.7	-	0.048									
50981C/50981	2	5	5.07	3.16	6	24.70	14.71	0.8	-	0.198	5	2.20	2.16	6	23.16	14.78	0.9	-	0.098									
Habitat Means			15.36	9.39		38.41	23.34		-			13.41	8.70		37.82	23.35		-										
Fisher's	Power		0.016		Power-50%		0.120	P-value		0.110x	Power	---		Power-50%		---	P-value		0.034	Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.003		Power-50%		0.291	P-value		0.721	Power	---		Power-50%		---	P-value		0.099	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	2	10.06	10.05	5	0.66	0.66	0.6	+	0.176	2	10.05	10.05	5	0.65	0.65	0.6	+	0.435									
50981C/50221	3	3	5.27	5.27	0	--	--	-		---	3	1.67	1.67	0	--	--	-		---									
50981C/50981	3	3	5.27	5.27	5	111.41	43.52	0.7	-	0.118	3	1.67	1.67	5	110.27	43.01	0.7	-	0.017									
Habitat Means			6.86	6.86		56.03	22.09		-			4.46	4.46		55.46	21.83		-										
Fisher's	Power		0.003		Power-50%		0.089	P-value		0.211	Power	---		Power-50%		---	P-value		0.041	Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.005		Power-50%		0.270	P-value		0.441	Power	0.061		Power-50%		---	P-value		0.129	Power	---		Power-50%		---	P-value		

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

Table C-3.106. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Estuarine. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	1.23	0.57	6	0.00	0.00	0.7	+	0.082	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	8.38	4.80	6	42.29	23.25	0.7	-	0.299	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	8.38	4.80	5	9.31	7.97	0.7	-	0.920	6	0.00	0.00	5	0.02	0.02	1.1	-	0.324	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			6.00	3.39		17.20	10.41		-			0.00	0.00		0.01	0.01		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.005		Power-50%		0.552	P-value		0.489x	Power	0.000		Power-50%		---	P-value		0.379	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		0.632	P-value		0.636	Power	0.000		Power-50%		---	P-value		0.285	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.01	0.01	6	0.00	0.00	1.1	+	0.262	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
50981C/50221	2	5	4.85	3.00	4	1.80	1.80	0.8	+	0.443	5	2.16	2.16	4	0.00	0.00	1.6	+	0.374	5	2.16	2.16	4	0.00	0.00	1.6	+	0.374
50981C/50981	2	5	4.85	3.00	6	7.60	7.35	1.0	-	0.756	5	2.16	2.16	6	0.01	0.00	1.3	+	0.787	5	2.16	2.16	6	0.00	0.00	1.3	+	0.510
Habitat Means			3.24	2.00		3.13	3.05		+			1.44	1.44		0.00	0.00		+			1.44	1.44		0.00	0.00		+	
Fisher's		Power	0.110		Power-50%		0.307	P-value		0.236	Power	0.161		Power-50%		---	P-value		0.196	Power	---		Power-50%		---	P-value		0.148
Stouffer's		Power	0.358		Power-50%		0.658	P-value		0.181	Power	0.281		Power-50%		---	P-value		0.116	Power	---		Power-50%		---	P-value		0.078
C15.1C/C15.1	3	2	10.05	10.05	5	0.65	0.65	0.6	+	0.435	2	0.00	0.00	5	0.65	0.65	2.1	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	1.67	1.67	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
50981C/50981	3	3	1.67	1.67	5	6.04	3.34	0.8	-	0.380	3	0.00	0.00	5	0.80	0.49	1.1	-	0.179	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			4.46	4.46		3.35	2.00		-			0.00	0.00		0.73	0.57		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.060		Power-50%		---	P-value		0.432 y	Power	---		Power-50%		---	P-value		0.085	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.067		Power-50%		---	P-value		0.473	Power	---		Power-50%		---	P-value		0.057	Power	---		Power-50%		---	P-value		0.500

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	5	0.02	0.02	1.1	-	0.324	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.01	0.01		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		---	P-value		0.379	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		---	P-value		0.285	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.0	-	0.175	5	0.00	0.00	6	0.00	0.00	1.0	-	0.175
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.015		Power-50%		---	P-value		0.265	Power	0.018		Power-50%		0.018	P-value		0.265
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.015		Power-50%		---	P-value		0.217	Power	0.018		Power-50%		---	P-value		0.217
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.65	0.65	2.1	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
50981C/50981	3	3	0.00	0.00	5	0.38	0.38	1.8	-	0.374	3	0.00	0.00	5	0.42	0.42	1.8	-	0.374	3	0.00	0.00	5	0.42	0.42	1.8	-	0.374
Habitat Means			0.00	0.00		0.19	0.19		-			0.00	0.00		0.54	0.54		-			0.00	0.00		0.21	0.21		-	
Fisher's		Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.152	Power	---		Power-50%		---	P-value		0.315
Stouffer's		Power	---		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		0.104	Power	---		Power-50%		---	P-value		0.265

(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 3.106. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Estuarine. July 1990. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.06	0.06	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.25	0.71	6	0.00	0.00	0.8	-	0.105	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	1.25	0.71	5	0.00	0.00	0.9	+	0.139	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.85	0.49		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.023	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	2.69	2.69	4	0.00	0.00	1.6	-	0.686	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	2.69	2.69	6	0.00	0.00	1.3	-	0.538	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1.80	1.80		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.406	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	2	0.00	0.00	5	0.65	0.65	2.1	-	0.374	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	1.67	1.67	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	1.67	1.67	5	0.64	0.40	0.8	-	0.467	3	0.00	0.00	5	0.38	0.38	1.8	-	0.374
Habitat Means			0.00	0.00		0.33	0.33		-			1.11	1.11		0.32	0.20		-			0.00	0.00		0.19	0.19		-	
Fisher's		Power	---		Power-50%		---	P-value		0.315	Power	0.035		Power-50%		---	P-value		0.368	Power	---		Power-50%		---	P-value		0.315
Stouffer's		Power	---		Power-50%		---	P-value		0.265	Power	0.034		Power-50%		---	P-value		0.304	Power	---		Power-50%		---	P-value		0.265

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.06	0.06	6	0.00	0.00	1.4	+	0.363
50981C/50221	1	6	0.90	0.71	6	0.00	0.00	1.1	+	0.258	6	0.90	0.71	6	0.00	0.00	1.1	-	0.258	6	0.34	0.22	6	0.00	0.00	0.9	+	0.296
50981C/50981	1	6	0.90	0.71	5	0.00	0.00	1.2	+	0.258	6	0.90	0.71	5	0.00	0.00	1.2	-	0.258	6	0.34	0.22	5	0.00	0.00	1.0	+	0.176
Habitat Means			0.60	0.47		0.00	0.00		+			0.60	0.47		0.00	0.00		+			0.25	0.17		0.00	0.00		+	
Fisher's		Power	0.081		Power-50%		0.073	P-value		0.143	Power	0.080		Power-50%		0.076	P-value		0.143	Power	---		Power-50%		---	P-value		0.060
Stouffer's		Power	---		Power-50%		0.144	P-value		0.096	Power	---		Power-50%		---	P-value		0.096	Power	---		Power-50%		---	P-value		0.028
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	5	2.69	2.69	4	0.00	0.00	1.6	+	0.374	5	2.69	2.69	4	0.00	0.00	1.6	+	0.374	5	0.00	0.00	4	0.00	0.00	1.2	-	0.391
50981C/50981	2	5	2.69	2.69	6	0.00	0.00	1.3	+	0.374	5	2.69	2.69	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363
Habitat Means			1.80	1.80		0.00	0.00		+			1.80	1.80		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.231	Power	---		Power-50%		---	P-value		0.231	Power	---		Power-50%		---	P-value		0.234
Stouffer's		Power	---		Power-50%		---	P-value		0.152	Power	---		Power-50%		---	P-value		0.152	Power	---		Power-50%		---	P-value		0.154
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	1.67	1.67	0	--	--	-		---
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	1.67	1.67	5	0.26	0.26	0.9	-	0.307
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			1.11	1.11		0.13	0.13		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.274
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.235

(b) Chaetomorpha melagonium not included.

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

Table C-3.106. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Estuarine. July 1990. (Continued.)

Site Pair	MVD	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	1.18	0.56	6	0.00	0.00	0.7	+	0.088	6	1.18	0.56	6	0.00	0.00	0.7	+	0.088	6	0.26	0.26	6	0.00	0.00	1.4	-	0.363
50981C/50221	1	6	7.14	4.99	6	42.29	23.25	0.7	-	0.227	6	7.14	4.99	6	42.29	23.25	0.7	-	0.227	6	6.97	5.02	6	40.28	23.27	0.7	-	0.648
50981C/50981	1	6	7.14	4.99	5	9.29	7.98	0.8	-	0.818	6	7.14	4.99	5	9.29	7.98	0.8	-	0.818	6	6.97	5.02	5	9.29	7.98	0.8	-	0.804
Habitat Means			5.15	3.51		17.19	10.41		-			5.15	3.51		17.19	10.41		-			4.73	3.43		16.52	10.41		-	
Fisher's		Power	0.011		Power-50%		0.283	P-value		0.398x	Power	0.009		Power-50%		0.267	P-value		0.398x	Power	0.009		Power-50%		0.009	P-value		0.612
Stouffer's		Power	0.003		Power-50%		0.384	P-value		0.561	Power	0.002		Power-50%		0.377	P-value		0.561	Power	0.011		Power-50%		0.363	P-value		0.547
C15.1C/C15.1	2	6	0.01	0.01	6	0.00	0.00	1.4	+	0.363	6	0.01	0.01	6	0.00	0.00	1.4	+	0.363	6	0.01	0.01	6	0.00	0.00	1.4	-	0.363
50981C/50221	2	5	0.00	0.00	4	1.80	1.80	1.2	-	0.506	5	0.00	0.00	4	1.80	1.80	1.2	-	0.506	5	0.00	0.00	4	1.80	1.80	1.2	-	0.506
50981C/50981	2	5	0.00	0.00	6	7.59	7.35	1.5	-	0.113	5	0.00	0.00	6	7.59	7.35	1.5	-	0.113	5	0.00	0.00	6	2.91	2.68	1.4	-	0.211
Habitat Means			0.00	0.00		3.13	3.05		-			0.00	0.00		3.13	3.05		-			0.00	0.00		1.57	1.49		-	
Fisher's		Power	0.002		Power-50%		---	P-value		0.179	Power	0.002		Power-50%		---	P-value		0.179	Power	0.002		Power-50%		0.002	P-value		0.265
Stouffer's		Power	0.005		Power-50%		---	P-value		0.219	Power	0.004		Power-50%		---	P-value		0.219	Power	0.003		Power-50%		---	P-value		0.281
C15.1C/C15.1	3	2	10.05	10.05	5	0.00	0.00	0.7	+	0.500	2	10.05	10.05	5	0.00	0.00	0.7	-	0.500	2	10.05	10.05	5	0.00	0.00	0.7	+	0.500
50981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
50981C/50981	3	3	0.00	0.00	5	4.61	3.46	1.4	-	0.254	3	0.00	0.00	5	4.61	3.46	1.4	-	0.254	3	0.00	0.00	5	4.61	3.46	1.4	-	0.254
Habitat Means			3.35	3.35		2.30	1.73		-			3.35	3.35		2.30	1.73		-			3.35	3.35		2.30	1.73		-	
Fisher's		Power	0.019		Power-50%		---	P-value		0.319 y	Power	0.017		Power-50%		---	P-value		0.319 y	Power	0.017		Power-50%		0.017	P-value		0.319 y
Stouffer's		Power	0.002		Power-50%		---	P-value		0.371	Power	0.003		Power-50%		---	P-value		0.371	Power	0.003		Power-50%		---	P-value		0.371

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

Site Pair	MVD	Enteromorpha clathrata (AE) N	C	SE	N	O	SE	CV	D	P	Enteromorpha intestinalis (AE) N	C	SE	N	O	SE	CV	D	P	[illegible] N	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	CV	[illegible]	[illegible]
C15.1C/C15.1	1	6	0.48	0.48	6	0.00	0.00	1.4	+	0.363	6	0.43	0.43	6	0.00	0.00	1.4	+	0.363									
50981C/50221	1	6	0.07	0.07	6	1.39	0.80	0.8	-	0.311	6	0.10	0.10	6	0.62	0.62	1.2	-	0.896									
50981C/50981	1	6	0.07	0.07	5	0.00	0.00	1.5	+	0.351	6	0.10	0.10	5	0.00	0.00	1.6	+	0.363									
Habitat Means			0.21	0.21		0.46	0.27		+			0.21	0.21		0.21	0.21		+										
Fisher's		Power	0.003		Power-50%		0.081	P-value		0.300 y	Power	---		Power-50%		---	P-value		0.237	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.016		Power-50%		0.340	P-value		0.316	Power	---		Power-50%		---	P-value		0.165	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
50981C/50221	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000									
50981C/50981	2	5	0.00	0.00	6	0.49	0.49	1.6	-	0.361	5	0.00	0.00	6	4.19	4.19	1.6	-	0.363									
Habitat Means			0.00	0.00		0.16	0.16		-			0.00	0.00		1.40	1.40		-										
Fisher's		Power	0.000		Power-50%		---	P-value		0.402	Power	0.000		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		---	P-value		0.299	Power	0.000		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000									
50981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---									
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

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

Table C-3.107. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Estuarine. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus cottonii (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	330.85	216.62	6	961.65	574.49	0.7	-	0.328	6	212.62	164.62	6	961.65	574.49	0.7	-	0.239	6	0.00	0.00	6	0.00	0.00		o	1.000
50981C/50221	1	6	641.83	381.19	6	157.78	119.15	0.7	+	0.253	6	275.67	142.82	6	157.57	119.20	0.6	+	0.540	6	0.15	0.15	6	0.00	0.00	1.4	-	0.363
50981C/50981	1	6	641.83	381.19	5	31.31	29.65	0.9	+	0.049	6	275.67	142.82	5	24.86	24.74	0.7	+	0.028	6	0.15	0.15	5	0.00	0.00	1.6	-	0.363
Habitat Means			538.17	326.33		383.58	241.10		+			254.65	150.09		381.36	239.48		+			0.10	0.10		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		0.077 y	Power	---		Power-50%		---	P-value		0.223
Stouffer's		Power	0.224		Power-50%		0.242	P-value		0.109	Power	0.121		Power-50%		0.334	P-value		0.173	Power	---		Power-50%		---	P-value		0.147
C15.1C/C15.1	2	6	1099.20	470.69	6	669.16	249.98	0.4	+	0.439	6	1063.27	450.74	6	669.16	249.98	0.4	+	0.462	6	0.00	0.00	6	0.00	0.00		o	1.000
50981C/50221	2	5	863.10	733.85	4	2519.43	1100.31	0.5	-	0.235	5	863.00	733.87	4	2430.70	1047.96	0.5	-	0.247	5	0.00	0.00	4	0.00	0.00		o	1.000
50981C/50981	2	5	863.10	733.85	6	167.73	127.41	0.9	+	0.741	5	863.00	733.87	6	150.89	113.60	0.9	+	0.708	5	0.00	0.00	6	0.00	0.00		o	1.000
Habitat Means			941.80	646.13		1118.77	492.57		+			929.76	639.49		1083.58	470.51		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.060		Power-50%		0.261	P-value		0.510 y	Power	0.068		Power-50%		0.230	P-value		0.510 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.044		Power-50%		0.338	P-value		0.519	Power	0.045		Power-50%		0.315	P-value		0.511	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	2	490.25	485.65	5	305.07	242.35	0.8	+	0.716	2	490.25	485.65	5	305.07	242.35	0.8	+	0.716	2	0.00	0.00	5	0.00	0.00		o	1.000
50981C/50221	3	3	272.69	119.67	0	--	--	-		---	3	269.09	117.07	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
50981C/50981	3	3	272.69	119.67	5	565.48	232.07	0.5	-	0.398	3	269.09	117.07	5	460.50	216.64	0.6	-	0.549	3	0.00	0.00	5	0.00	0.00		o	1.000
Habitat Means			345.21	241.66		435.28	237.21		-			342.81	239.93		382.79	229.50		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.003		Power-50%		0.186	P-value		0.391	Power	0.003		Power-50%		0.208	P-value		0.482	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.006		Power-50%		0.218	P-value		0.367	Power	0.007		Power-50%		0.213	P-value		0.434	Power	---		Power-50%		---	P-value		0.500

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

		Fucus gardneri (P)								Petalonia fascia (AE)								Morphological Group - Coarse Filamentous Browns							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	212.62	164.62	6	961.65	574.49	0.7	-	0.239	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.05	0.05	6	0.00	0.00	1.4	-	0.363
50981C/50221	1	6	275.52	142.88	6	157.57	119.20	0.6	+	0.540	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.02	0.02	6	0.00	0.00	1.3	-	0.315
50981C/50981	1	6	275.52	142.88	5	24.86	24.74	0.7	+	0.028	6	0.00	0.00	5	0.00	0.00		o	1.000	6	0.02	0.02	5	0.00	0.00	1.4	-	0.315
Habitat Means			254.55	150.13		381.36	239.48		+			0.00	0.00		0.00	0.00		o			0.03	0.03		0.00	0.00		.	
Fisher's		Power	---		Power-50%		---	P-value		0.077 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.095
Stouffer's		Power	0.110		Power-50%		0.294	P-value		0.174	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.046
C15.1C/C15.1	2	6	1063.27	450.74	6	669.16	249.98	0.4	+	0.462	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.10	0.10	6	0.00	0.00	1.4	+	0.363
50981C/50221	2	5	863.00	733.87	4	2430.70	1047.96	0.5	-	0.247	5	0.00	0.00	4	0.00	0.00		o	1.000	5	0.06	0.06	4	0.23	0.23	1.0	-	0.456
50981C/50981	2	5	863.00	733.87	6	150.89	113.60	0.9	+	0.708	5	0.00	0.00	6	0.00	0.00		o	1.000	5	0.06	0.06	6	1.28	1.28	1.5	-	0.916
Habitat Means			929.76	639.49		1083.58	470.51		+			0.00	0.00		0.00	0.00		o			0.07	0.07		0.50	0.50		-	
Fisher's		Power	0.067		Power-50%		0.244	P-value		0.510 y	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.554
Stouffer's		Power	0.044		Power-50%		0.313	P-value		0.511	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.513
C15.1C/C15.1	3	2	490.25	485.65	5	305.07	242.35	0.8	+	0.716	2	0.00	0.00	5	0.00	0.00		o	1.000	2	0.00	0.00	5	0.00	0.00		o	1.000
50981C/50221	3	3	269.09	117.07	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	3.60	3.60	0	--	--	-		---
50981C/50981	3	3	269.09	117.07	5	460.50	216.64	0.6	-	0.549	3	0.00	0.00	5	0.00	0.00		o	1.000	3	3.60	3.60	5	0.38	0.38	0.9	+	0.641
Habitat Means			342.81	239.93		382.79	229.50		-			0.00	0.00		0.00	0.00		o			2.40	2.40		0.19	0.19		+	
Fisher's		Power	0.003		Power-50%		0.192	P-value		0.482	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.454
Stouffer's		Power	0.005		Power-50%		0.201	P-value		0.434	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.371

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

Table C-3.107. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Estuarine. July 1990. (Continued.)

Site Pair	MVD	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.05	0.05	6	0.00	0.00	1.4	+	0.363	6	0.05	0.05	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.02	0.02	6	0.00	0.00	1.3	+	0.315
50981C/50981	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.02	0.02	5	0.00	0.00	1.4	+	0.315
Habitat Means			0.02	0.02		0.00	0.00		+			0.02	0.02		0.00	0.00		+			0.01	0.01		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	0.021		Power-50%		0.021	P-value		0.186
Stouffer's		Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.300	Power	0.061		Power-50%		0.050	P-value		0.123
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.10	0.10	6	0.00	0.00	1.4	-	0.363
50981C/50221	2	5	0.00	0.00	4	0.23	0.23	1.2	-	0.391	5	0.00	0.00	4	0.23	0.23	1.2	-	0.391	5	0.06	0.06	4	0.00	0.00	1.6	-	0.374
50981C/50981	2	5	0.00	0.00	6	1.28	1.28	1.6	-	0.363	5	0.00	0.00	6	1.28	1.28	1.6	-	0.363	5	0.06	0.06	6	0.00	0.00	1.3	-	0.374
Habitat Means			0.00	0.00		0.50	0.50		-			0.00	0.00		0.50	0.50		-			0.07	0.07		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.234	Power	---		Power-50%		---	P-value		0.234	Power	---		Power-50%		---	P-value		0.120
Stouffer's		Power	---		Power-50%		---	P-value		0.154	Power	---		Power-50%		---	P-value		0.154	Power	---		Power-50%		---	P-value		0.060
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	0.67	0.67	0	--	--	-		---	3	0.67	0.67	0	--	--	-		---	3	2.93	2.93	0	--	--	-		---
50981C/50981	3	3	0.67	0.67	5	0.38	0.38	0.9	+	0.696	3	0.67	0.67	5	0.38	0.38	0.9	+	0.696	3	2.93	2.93	5	0.00	0.00	1.0	+	0.423
Habitat Means			0.44	0.44		0.19	0.19		+			0.44	0.44		0.19	0.19		+			1.96	1.96		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.478	Power	---		Power-50%		---	P-value		0.478	Power	---		Power-50%		---	P-value		0.343
Stouffer's		Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.391	Power	---		Power-50%		---	P-value		0.285

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Blachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	118.18	69.57	6	0.00	0.00	0.8	-	0.150	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	118.18	69.57	6	0.00	0.00	0.8	-	0.150
50981C/50221	1	6	366.14	248.27	6	0.21	0.19	1.0	+	0.098	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	366.14	248.27	6	0.21	0.19	1.0	-	0.098
50981C/50981	1	6	366.14	248.27	5	6.45	4.99	1.0	+	0.644	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	366.14	248.27	5	6.45	4.99	1.0	-	0.644
Habitat Means			283.48	188.71		2.22	1.73		+			0.00	0.00		0.00	0.00		o			283.48	188.71		2.22	1.73		-	
Fisher's		Power	---		Power-50%		---	P-value		0.036	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.036
Stouffer's		Power	---		Power-50%		0.401	P-value		0.020	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.020
C15.1C/C15.1	2	6	35.84	21.79	6	0.00	0.00	0.9	+	0.161	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	35.83	21.79	6	0.00	0.00	0.9	<	0.161
50981C/50221	2	5	0.03	0.03	4	88.51	56.20	0.8	-	0.048	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.03	0.03	4	88.51	56.20	0.8	-	0.048
50981C/50981	2	5	0.03	0.03	6	15.57	14.26	1.4	-	0.121	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363	5	0.03	0.03	6	15.56	14.26	1.4	-	0.134
Habitat Means			11.97	7.28		34.69	23.49		-			0.00	0.00		0.00	0.00		-			11.97	7.28		34.69	23.49		-	
Fisher's		Power	---		Power-50%		---	P-value		0.040	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.043
Stouffer's		Power	0.010		Power-50%		0.227	P-value		0.110	Power	---		Power-50%		---	P-value		0.300	Power	0.010		Power-50%		0.265	P-value		0.116
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
50981C/50981	3	3	0.00	0.00	5	104.60	44.50	0.8	-	0.079	3	0.00	0.00	5	0.38	0.38	1.8	-	0.374	3	0.00	0.00	5	104.22	44.34	0.8	-	0.079
Habitat Means			0.00	0.00		52.30	22.25		-			0.00	0.00		0.19	0.19		-			0.00	0.00		52.11	22.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.097
Stouffer's		Power	0.006		Power-50%		---	P-value		0.107	Power	---		Power-50%		---	P-value		0.265	Power	0.005		Power-50%		---	P-value		0.107

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

Table C-3.107. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Estuarine. July 1990. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
5(981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
5(981C/50981	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.223
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.147	Power	---		Power-50%		---	P-value		0.147
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
5(981C/50221	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	1.6	+	0.374	5	0.00	0.00	4	0.00	0.00	1.6	-	0.374
5(981C/50981	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	1.3	-	0.374
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		0.403	Power	---		Power-50%		---	P-value		0.231	Power	---		Power-50%		---	P-value		0.231
Stouffer's		Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.152	Power	---		Power-50%		---	P-value		0.152
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
5(981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
5(981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia fungiformis (P) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
5(981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
5(981C/50981	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
5(981C/50221	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000									
5(981C/50981	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000									
5(981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---									
5(981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

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

Table C-3.108. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.05	0.05	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	17.52	17.52	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	17.52	17.52	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			11.68	11.68		0.02	0.02		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.301	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.001		Power-50%		0.002	P-value		0.300	Power	---		Power-50%		---	P-value		0.147	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	5	0.40	0.40	4	0.00	0.00	1.6	+	0.747	5	0.06	0.06	4	0.00	0.00	1.6	+	0.374	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	5	0.40	0.40	6	0.25	0.25	1.0	+	0.749	5	0.06	0.06	6	0.25	0.25	1.3	-	0.517	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.27	0.27		0.09	0.09		+			0.04	0.04		0.08	0.08		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.632	Power	---		Power-50%		---	P-value		0.501 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.561	Power	---		Power-50%		---	P-value		0.445	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	2	0.01	0.01	5	0.00	0.00	0.8	+	0.513	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	261.37	260.77	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
50981C/50981	3	3	261.37	260.77	5	2.06	1.63	1.0	+	0.508	3	0.00	0.00	5	1.68	1.68	1.8	-	0.374	3	0.00	0.00	5	1.68	1.68	1.8	-	0.374
Habitat Means			174.25	173.85		1.03	0.82		.			0.00	0.00		0.84	0.84		-			0.00	0.00		0.84	0.84		-	
Fisher's		Power	0.155		Power-50%		0.130	P-value		0.243	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.315
Stouffer's		Power	0.186		Power-50%		0.151	P-value		0.176	Power	---		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		0.265

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

		Total Palmaria (A)								*Palmaria spp.* (A)								*Palmaria callophylloides* (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.108. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. July 1990. (Continued.)

Site Pair	MVD	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500

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

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.05	0.05	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	17.52	17.52	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	17.52	17.52	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			11.68	11.68		0.02	0.02		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.223	Power	0.000		Power-50%	0.000	P-value			0.301	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.147	Power	0.000		Power-50%	0.000	P-value			0.300	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	5	0.06	0.06	4	0.00	0.00	1.6	+	0.374	5	0.34	0.34	4	0.00	0.00	1.6	+	0.753	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	5	0.06	0.06	6	0.25	0.25	1.3	-	0.517	5	0.34	0.34	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.04	0.04		0.08	0.08		+			0.23	0.23		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.501 y	Power	---		Power-50%	---	P-value			0.350	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.445	Power	---		Power-50%	---	P-value			0.244	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	261.37	260.77	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	261.37	260.77	5	0.00	0.00	1.0	+	0.081	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			174.24	173.84		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.100	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	0.007		Power-50%	0.002	P-value			0.109	Power	---		Power-50%	---	P-value			0.500

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

Table C-3.108. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. July 1990. (Continued.)

Site Pair	MVD	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.05	0.05	1.4	-	0.363
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	1.6	-	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			*0.00*	*0.00*		*0.00*	*0.00*		o			0.00	0.00		0.00	0.00		+			0.00	0.00		0.02	0.02		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.223	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.147	Power	---		Power-50%		---	P-value		0.300
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.06	0.06	4	0.00	0.00	1.6	+	0.374
50981C/50981	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.06	0.06	6	0.00	0.00	1.3	+	0.374
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.04	0.04		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.231
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.152
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	0.00	0.00	0	--	--	-	---		3	0.00	0.00	0	--	--	-	---		*3*	*0.00*	*0.00*	*0*	--	--	-	---	
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	*Ptilota sp. (P)* N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	17.52	17.52	6	0.00	0.00	1.4	+	0.363	6	17.52	17.52	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	17.52	17.52	5	*0.00*	*0.00*	*1.6*	+	*0.363*	6	17.52	17.52	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			11.68	11.68		0.00	0.00		+			11.68	11.68		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.301	Power	---		Power-50%		---	P-value		0.301	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	*6*	*0.00*	*0.00*	*6*	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	5	0.28	0.28	4	0.00	0.00	1.6	-	0.761	5	0.28	0.28	4	0.00	0.00	1.6	-	0.761	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	5	0.28	0.28	6	0.00	0.00	1.3	-	0.374	5	0.28	0.28	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.19	0.19		0.00	0.00		+			0.19	0.19		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.352	Power	---		Power-50%		---	P-value		0.352	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.246	Power	---		Power-50%		---	P-value		0.246	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	261.37	260.77	0	--	--	-	---		3	261.37	260.77	0	--	--	-	---		3	0.00	0.00	0	--	--	-	---	
50981C/50981	3	3	261.37	260.77	5	0.00	0.00	1.0	+	0.081	3	261.37	260.77	5	0.00	0.00	1.0	+	0.081	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			174.24	173.84		0.00	0.00		+			174.24	173.84		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	*P-value*		*0.100*	*Power*	---		*Power-50%*		---	P-value		0.100	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.007		Power-50%		0.000	P-value		0.109	Power	0.007		Power-50%		0.003	P-value		0.109	Power	---		Power-50%		---	P-value		0.500

(b) Neorhodomela larix not included.

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

Table C-3.108. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. July 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Reds								Antithamnion/Antithamnionella (A) (b)								Audouinella purpurea (AE)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE			
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	2	0.01	0.01	5	0.00	0.00	0.8	-	0.513	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
50981C/50981	3	3	0.00	0.00	5	0.38	0.38	1.8	-	0.371	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.19	0.19		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		---	P-value		0.411	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.009		Power-50%		---	P-value		0.432	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Polysiphonia/Pterosiphonia (A) (a)									Morphological Group - Saccate Reds									Total Halosaccion (A)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000	5	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	2	0.01	0.01	5	0.00	0.00	0.8	-	0.513	2	0.00	0.00	5	0.00	0.00	-	o	1.000	2	0.00	0.00	5	0.00	0.00	-	o	1.000
50981C/50221	3	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---	3	0.00	0.00	0	--	--	-		---
50981C/50981	3	3	0.00	0.00	5	0.38	0.38	1.8	-	0.371	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.19	0.19		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		---	P-value		0.411	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.007		Power-50%		---	P-value		0.432	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

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

Table C-3.108. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. July 1990. (Continued.)

		Halosaccion glandiforme (A)																							
Pa	MVD	N	C	SE	N	C	SE	CV	D	P	N	C	SE	N	C	SE	CV	D	P						
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000															
50981C/50981	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000															
Habitat Means			0.00	0.00		0.00	0.00		o																
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%	---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%	---	P-value
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000															
50981C/50221	2	5	0.00	0.00	4	0.00	0.00	-	o	1.000															
50981C/50981	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000															
Habitat Means			0.00	0.00		0.00	0.00		o																
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%	---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%	---	P-value
C15.1C/C15.1	3	2	0.00	0.00	5	0.00	0.00	-	o	1.000															
50981C/50221	3	3	0.00	0.00	0	--	--	-		---															
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000															
Habitat Means			0.00	0.00		0.00	0.00		o																
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%	---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%	---	P-value

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

Table C-3.109. Algal Biomass. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	4.33	0.42	6	1.33	0.56	0.2	+	0.002	6	265.97	122.30	6	45.85	41.44	0.6	+	0.119	6	172.42	85.06	6	44.26	41.74	0.6	+	0.206
50981C/50221	1	6	4.83	0.40	6	2.50	0.62	0.1	+	0.010	6	584.92	235.64	6	488.91	242.60	0.4	+	0.782	6	141.34	64.05	6	486.59	242.58	0.6	-	0.199
50981C/50981	1	6	4.83	0.40	6	3.00	1.15	0.2	+	0.165	6	584.92	235.64	6	26.50	15.35	0.5	+	0.051	6	141.34	64.05	6	24.22	14.15	0.6	+	0.103
Habitat Means			4.67	0.41		2.28	0.78		+			478.60	197.86		187.08	99.80		+			151.70	71.06		185.02	99.49		+	
Fisher's		Power	---		Power-50%		---	P-value	0.000		Power	---		Power-50%		---	P-value	0.021		Power	---		Power-50%		---	P-value	0.099	y
Stouffer's		Power	---		Power-50%		1.000	P-value	0.000		Power	---		Power-50%		---	P-value	0.014		Power	0.162		Power-50%		0.255	P-value	0.176	
C15.1C/C15.1	2	6	4.33	0.33	6	1.17	0.79	0.2	-	0.004	6	978.69	231.14	6	126.67	122.83	0.3	-	0.009	6	850.72	209.18	6	126.67	122.83	0.4	+	0.014
50981C/50221	2	6	6.67	0.99	6	3.50	0.89	0.2	+	0.038	6	897.50	429.23	6	1061.33	689.70	0.6	-	0.844	6	770.76	432.87	6	1045.83	691.90	0.6	-	0.743
50981C/50981	2	6	6.67	0.99	6	4.33	1.17	0.2	-	0.159	6	897.50	429.23	6	393.98	160.11	0.5	-	0.298	6	770.76	432.87	6	380.65	156.14	0.6	+	0.416
Habitat Means			5.89	0.77		3.00	0.95		+			924.56	363.20		527.33	324.21		-			797.42	358.31		517.72	323.62		+	
Fisher's		Power	---		Power-50%		---	P-value	0.000		Power	---		Power-50%		---	P-value	0.015		Power	---		Power-50%		---	P-value	0.029	
Stouffer's		Power	---		Power-50%		1.000	P-value	0.000		Power	---		Power-50%		---	P-value	0.023		Power	---		Power-50%		---	P-value	0.044	
C15.1C/C15.1	3	0	--	--	2	1.00	0.00	-		---	0	--	--	2	2.99	2.98	-		---	0	--	--	2	2.99	2.98	-		---
50981C/50221	3	3	12.00	2.65	2	7.50	2.50	0.3	+	0.331	3	495.04	174.98	2	128.87	82.94	0.5	-	0.216	3	320.77	101.87	2	76.42	61.31	0.5	+	0.178
50981C/50981	3	3	12.00	2.65	5	6.00	1.30	0.2	+	0.060	3	495.04	174.98	5	1217.97	515.13	0.6	-	0.341	3	320.77	101.87	5	1191.31	511.79	0.6	-	0.252
Habitat Means			12.00	2.65		4.83	1.27		+			495.04	174.98		449.94	200.35		+			320.77	101.87		423.57	192.03		+	
Fisher's		Power	---		Power-50%		---	P-value	0.032		Power	0.031		Power-50%		0.115	P-value	0.306		Power	0.023		Power-50%		0.023	P-value	0.276	y
Stouffer's		Power	---		Power-50%		0.046	P-value	0.022		Power	0.038		Power-50%		0.017	P-value	0.420		Power	0.031		Power-50%		0.024	P-value	0.443	

(a) 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.

		Annuals (A)								Ephemerals (AE)															
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50981C/50221	1	6	443.58	224.89	6	2.32	2.29	0.7	+	0.002	6	443.15	224.93	6	2.32	2.29	0.7	+	0.003									
50981C/50981	1	6	443.58	224.89	6	2.28	1.33	0.7	+	0.016	6	443.15	224.93	6	2.28	1.33	0.7	+	0.017									
Habitat Means			326.91	179.15		2.06	1.73		+			326.32	178.88		1.53	1.21		+										
Fisher's		Power	---		Power-50%		---	P-value	0.000		Power	---		Power-50%		---	P-value	0.000		Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		0.433	P-value	0.000		Power	---		Power-50%		---	P-value	0.000		Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	6	127.98	41.30	6	0.00	0.00	0.5	+	0.000	6	127.50	41.52	6	0.00	0.00	0.5	-	0.000									
50981C/50221	2	6	126.74	79.30	6	15.51	6.52	0.8	+	0.146	6	118.64	80.38	6	10.82	6.06	0.9	+	0.196									
50981C/50981	2	6	126.74	79.30	6	13.33	5.71	0.8	+	0.130	6	118.64	80.38	6	12.42	5.65	0.9	-	0.237									
Habitat Means			127.15	66.63		9.61	4.08		+			121.60	67.43		7.75	3.90		-										
Fisher's		Power	---		Power-50%		---	P-value	0.000		Power	---		Power-50%		---	P-value	0.000		Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		0.554	P-value	0.000		Power	---		Power-50%		---	P-value	0.000		Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
50981C/50221	3	3	174.28	140.76	2	52.44	21.63	1.1	+	0.552	3	162.96	142.24	2	52.02	21.22	1.2	-	0.590									
50981C/50981	3	3	174.28	140.76	5	26.66	10.14	0.7	+	0.194	3	162.96	142.24	5	25.45	9.86	0.8	-	0.376									
Habitat Means			174.28	140.76		26.37	10.59		-			162.96	142.24		25.83	10.36		-										
Fisher's		Power	0.267		Power-50%		0.029	P-value	0.124		Power	0.110		Power-50%		0.019	P-value	0.216		Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		0.006	P-value	0.090		Power	0.124		Power-50%		0.005	P-value	0.157		Power	---		Power-50%		---	P-value		

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

Table C-3.110. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Estuarine. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								*Kornmannia leptoderma* (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	6.21	2.34	6	0.00	0.00	0.5	+	0.045	6	5.05	2.24	6	0.00	0.00	0.6	+	0.074	6	1.42	0.94	6	0.00	0.00	0.9	+	0.190
50981C/50221	1	6	25.43	18.77	6	2.29	2.27	1.0	+	0.151	6	22.77	18.81	6	2.25	2.23	1.1	+	0.368	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	25.43	18.77	6	2.28	1.33	1.0	+	0.461	6	22.77	18.81	6	1.97	1.37	1.1	+	0.891	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			19.02	13.29		1.52	1.20		+			16.87	13.29		1.41	1.20		+			0.47	0.31		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.016	Power	---		Power-50%		---	P-value		0.071	Power	0.000		Power-50%		0.000	P-value		0.370
Stouffer's		Power	---		Power-50%		0.382	P-value		0.008	Power	---		Power-50%		---	P-value		0.051	Power	0.000		Power-50%		0.000	P-value		0.409
C15.1C/C15.1	2	6	63.57	24.56	6	0.00	0.00	0.5	+	0.000	6	46.95	25.31	6	0.00	0.00	0.8	+	0.000	6	44.36	25.59	6	0.00	0.00	0.8	+	0.144
50981C/50221	2	6	3.90	1.41	6	7.73	4.52	0.6	-	0.438	6	2.58	1.26	6	3.03	2.07	0.6	-	0.856	6	0.00	0.00	6	1.23	1.23	2.4	-	0.363
50981C/50981	2	6	3.90	1.41	6	12.39	5.65	0.5	-	0.918	6	2.58	1.26	6	10.84	6.02	0.6	-	0.852	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175
Habitat Means			23.79	9.13		6.71	3.39		-			17.37	9.28		4.62	2.70		-			14.79	8.53		0.41	0.41		-	
Fisher's		Power	0.020		Power-50%		0.317	P-value		0.597xy	Power	0.003		Power-50%		0.172	P-value		0.757xy	Power	0.000		Power-50%		0.000	P-value		0.208 y
Stouffer's		Power	0.002		Power-50%		0.420	P-value		0.959	Power	0.000		Power-50%		0.291	P-value		0.979	Power	0.000		Power-50%		0.000	P-value		0.321
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	127.62	122.60	2	51.89	21.09	1.2	+	0.667	3	123.91	119.06	2	51.81	21.01	1.2	+	0.673	3	0.53	0.27	2	8.85	8.54	0.9	-	0.399
50981C/50981	3	3	127.62	122.60	5	13.88	6.10	0.9	+	0.522	3	123.91	119.06	5	13.80	6.12	0.9	-	0.530	3	0.53	0.27	5	0.00	0.00	0.5	+	0.090
Habitat Means			127.62	122.60		21.93	9.07		+			123.91	119.06		21.87	9.04		-			0.53	0.27		2.95	2.85		+	
Fisher's		Power	0.047		Power-50%		0.013	P-value		0.299	Power	0.047		Power-50%		0.012	P-value		0.305	Power	0.077		Power-50%		0.077	P-value		0.156 y
Stouffer's		Power	0.052		Power-50%		0.003	P-value		0.224	Power	0.051		Power-50%		0.004	P-value		0.229	Power	0.052		Power-50%		0.081	P-value		0.274

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								*Ulva spp.* (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	3.63	2.35	6	0.00	0.00	0.9	-	0.184	6	0.00	0.00	6	0.00	0.00	0.9	+	0.194	6	0.00	0.00	6	0.00	0.00	0.9	+	0.194
50981C/50221	1	6	22.77	18.81	6	2.25	2.23	1.1	+	0.368	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	22.77	18.81	6	1.52	1.40	1.1	+	0.645	6	0.00	0.00	6	0.45	0.45	1.4	-	0.361	6	0.00	0.00	6	0.45	0.45	1.4	-	0.363
Habitat Means			16.39	13.33		1.26	1.21		+			0.00	0.00		0.15	0.15		+			0.00	0.00		0.15	0.15		+	
Fisher's		Power	0.123		Power-50%		0.044	P-value		0.108	Power	0.000		Power-50%		0.013	P-value		0.375 y	Power	0.007		Power-50%		0.007	P-value		0.374 y
Stouffer's		Power	---		Power-50%		0.122	P-value		0.060	Power	0.000		Power-50%		0.000	P-value		0.412	Power	0.001		Power-50%		0.000	P-value		0.411
C15.1C/C15.1	2	6	0.57	0.51	6	0.00	0.00	1.2	+	0.160	6	2.02	2.02	6	0.00	0.00	1.4	-	0.363	6	2.02	2.02	6	0.00	0.00	1.4	-	0.363
50981C/50221	2	6	2.58	1.26	6	1.80	0.88	0.5	+	0.626	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	2	6	2.58	1.26	6	5.63	2.99	0.6	-	0.369	6	0.00	0.00	6	5.21	3.33	0.9	-	0.178	6	0.00	0.00	6	2.90	2.90	1.4	-	0.363
Habitat Means			1.91	1.01		2.48	1.29		+			0.67	0.67		1.74	1.11		-			0.67	0.67		0.97	0.97		-	
Fisher's		Power	0.029		Power-50%		0.089	P-value		0.255 y	Power	0.016		Power-50%		---	P-value		0.357	Power	0.000		Power-50%		0.000	P-value		0.518
Stouffer's		Power	0.060		Power-50%		0.192	P-value		0.283	Power	0.002		Power-50%		---	P-value		0.400	Power	0.000		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	123.17	118.77	2	42.89	12.39	1.3	+	0.637	3	0.21	0.21	2	0.08	0.08	1.3	+	0.659	3	0.21	0.21	2	0.08	0.08	1.3	+	0.659
50981C/50981	3	3	123.17	118.77	5	5.02	2.66	0.9	+	0.297	3	0.21	0.21	5	8.78	5.26	1.1	-	0.155	3	0.21	0.21	5	8.78	5.26	1.1	-	0.155
Habitat Means			123.17	118.77		15.97	5.02		+			0.21	0.21		2.95	1.78		-			0.21	0.21		2.95	1.78		-	
Fisher's		Power	0.082		Power-50%		0.014	P-value		0.192	Power	0.139		Power-50%		---	P-value		0.206	Power	0.141		Power-50%		0.141	P-value		0.206
Stouffer's		Power	0.079		Power-50%		0.004	P-value		0.142	Power	0.138		Power-50%		---	P-value		0.244	Power	0.145		Power-50%		---	P-value		0.244

(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-3.110. Algal Biomass. Chlorophyta. Cook Inlet/Kenai. Estuarine. May 1991. (Continued.)

Site Pair	MVD	Ulva fenestrata (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.3	+	0.733	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.0	-	0.730	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			*0.00*	*0.00*		*0.00*	*0.00*		-			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.492	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.346	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.32	1.32	6	0.00	0.00	1.4	+	0.363	6	1.32	1.32	6	0.00	0.00	1.4	+	0.363
50981C/50981	2	6	0.00	0.00	6	2.31	2.31	1.4	-	0.363	6	1.32	1.32	6	0.27	0.27	1.2	+	0.791	6	1.32	1.32	6	0.27	0.27	1.2	+	0.917
Habitat Means			0.00	0.00		0.77	0.77		-			0.88	0.88		0.09	0.09		+			0.88	0.88		0.09	0.09		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.000		Power-50%		0.001	P-value		0.354	Power	---		Power-50%		---	P-value		0.384
Stouffer's		Power	---		Power-50%		---	P-value		0.300	Power	0.001		Power-50%		0.003	P-value		0.249	Power	---		Power-50%		---	P-value		0.279
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	*3.07*	*2.93*	2	*0.00*	*0.00*	1.7	+	*0.404*	3	*2.77*	*2.62*	2	*0.00*	*0.00*	1.7	-	*0.402*
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	3.07	2.93	5	0.00	0.00	1.0	+	0.404	3	2.77	2.62	5	0.00	0.00	0.9	-	0.402
Habitat Means			0.00	0.00		0.00	0.00		o			3.07	2.93		0.00	0.00		+			2.77	2.62		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	0.053		Power-50%		0.008	P-value		0.171	Power	0.059		Power-50%		0.059	P-value		0.170
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.128		Power-50%		0.001	P-value		0.119	Power	0.130		Power-50%		0.000	P-value		0.118

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	*Chaetomorpha/Rhizoclonium spp. (A) (b)* N	C	SE	N	O	SE	CV	D	P	*Cladophora sp. (AE)* N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.3	+	0.733
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	+	0.730
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.492
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.346
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
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		0.223 y	Power	---		Power-50%		---	P-value		0.223 y	Power	---		Power-50%		---	P-value		0.223
Stouffer's		Power	---		Power-50%		---	P-value		0.147	Power	---		Power-50%		---	P-value		0.147	Power	---		Power-50%		---	P-value		0.147
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.31	0.30	2	0.00	0.00	1.8	-	0.421
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.31	0.30	5	0.00	0.00	1.0	-	0.421
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.31	0.31		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	0.018		Power-50%		0.018	P-value		0.182
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.045		Power-50%		0.002	P-value		0.128

(b) Chaetomorpha melagonium not included.

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

Table C-3.110. Algal Biomass. Chlorophyta. C [illegible] Inlet/Kenai. Estuarine. May 1991. (Continued.)

Site Pair	MVD	Morphological Group - Tubular and Saccate Greens								Total Blidingia/Enteromorpha (AE)								Blidingia/Enteromorpha spp. (AE) (b)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	1.15	0.85	6	0.00	0.00	1.0	+	0.234	6	1.15	0.85	6	0.00	0.00	1.0	+	0.234	6	1.10	0.86	6	0.00	0.00	1.1	+	0.258
50981C/50221	1	6	2.66	2.22	6	0.04	0.04	1.2	+	0.354	6	2.66	2.22	6	0.04	0.04	1.2	+	0.354	6	2.66	2.22	6	0.04	0.04	1.2	+	0.384
50981C/50981	1	6	2.66	2.22	6	0.30	0.30	1.1	+	0.454	6	2.66	2.22	6	0.30	0.30	1.1	+	0.454	6	2.66	2.22	6	0.30	0.30	1.1	+	0.659
Habitat Means			2.16	1.77		0.11	0.11		+			2.16	1.77		0.11	0.11		+			2.14	1.77		0.11	0.11		+	
Fisher's	Power		---		Power-50%		---	P-value		0.098	Power		---		Power-50%		---	P-value		0.098	Power	0.180		Power-50%		0.180	P-value		0.142
Stouffer's	Power		---		Power-50%		0.165	P-value		0.049	Power		---		Power-50%		---	P-value		0.049	Power	---		Power-50%		---	P-value		0.079
C15.1C/C15.1	2	6	16.62	16.57	6	0.00	0.00	1.4	-	0.362	6	16.62	16.57	6	0.00	0.00	1.4	-	0.362	6	16.62	16.57	6	0.00	0.00	1.4	+	0.362
50981C/50221	2	6	0.01	0.00	6	4.70	4.67	1.4	-	0.694	6	0.01	0.00	6	4.70	4.67	1.4	-	0.694	6	0.01	0.00	6	4.66	4.63	1.4	-	0.694
50981C/50981	2	6	0.01	0.00	6	1.29	1.28	1.4	-	0.878	6	0.01	0.00	6	1.29	1.28	1.4	-	0.878	6	0.01	0.00	6	1.29	1.28	1.4	-	0.878
Habitat Means			5.54	5.52		2.00	1.99		-			5.54	5.52		2.00	1.99		-			5.54	5.52		1.98	1.97		-	
Fisher's	Power		0.001		Power-50%		0.107	P-value		0.655 y	Power		0.001		Power-50%		0.131	P-value		0.655 y	Power		0.000		Power-50%		0.000	P-value		0.655 y
Stouffer's	Power		0.000		Power-50%		0.295	P-value		0.584	Power		0.000		Power-50%		0.346	P-value		0.584	Power		0.000		Power-50%		0.290	P-value		0.584
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	0.63	0.62	2	0.09	0.09	1.6	+	0.547	3	0.63	0.62	2	0.09	0.09	1.6	+	0.547	3	0.63	0.62	2	0.08	0.08	1.6	-	0.543
50981C/50981	3	3	0.63	0.62	5	0.09	0.05	0.9	+	0.448	3	0.63	0.62	5	0.09	0.05	0.9	+	0.448	3	0.63	0.62	5	0.09	0.05	0.9	-	0.448
Habitat Means			0.63	0.62		0.06	0.04		+			0.63	0.62		0.06	0.04		+			0.63	0.62		0.06	0.04		-	
Fisher's	Power		0.059		Power-50%		0.021	P-value		0.232	Power		0.072		Power-50%		0.025	P-value		0.232	Power		0.066		Power-50%		0.066	P-value		0.231
Stouffer's	Power		0.088		Power-50%		0.005	P-value		0.168	Power		0.101		Power-50%		0.006	P-value		0.168	Power		0.093		Power-50%		0.004	P-value		0.167

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

Site Pair	MVD	Enteromorpha clathrata (AE)									Enteromorpha intestinalis (AE)																	
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.05	0.05	6	0.00	0.00	1.4	-	0.363									
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000									
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		+			0.02	0.02		0.00	0.00		+										
Fisher's	Power		---		Power-50%		---	P-value		0.223	Power		---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.147	Power		---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value	
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
50981C/50221	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.04	0.04	1.4	-	0.363									
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.01	0.01		-										
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value	
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---									
50981C/50221	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.01	0.01	1.0	-	0.500									
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00		- o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-										
Fisher's	Power		---		Power-50%		---	P-value		0.597	Power		---		Power-50%		---	P-value		0.385	Power	---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.317	Power	---		Power-50%		---	P-value	

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

Table C-3.111. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Estuarine. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; *P = probability value; dashes = insufficient data.*

		Total Phaeophyta								Morphological Group - Bladed Browns								Fucus cottonii (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	258.88	121.26	6	44.26	41.74	0.6	+	0.125	6	172.42	85.06	6	44.26	41.74	0.6	+	0.206	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	559.48	220.33	6	486.61	242.58	0.4	-	0.829	6	141.33	64.05	6	486.59	242.58	0.6	-	0.199	6	0.07	0.07	6	0.00	0.00	1.4	+	0.363
50981C/50981	1	6	559.48	220.33	6	24.22	14.15	0.5	+	0.046	6	141.33	64.05	6	24.22	14.15	0.6	+	0.103	6	0.07	0.07	6	0.00	0.00	1.4	+	0.363
Habitat Means			459.28	187.30		185.03	99.49		+			151.69	71.06		185.02	99.49		+			0.04	0.04		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value			0.022	Power	---		Power-50%	---	P-value			0.099 y	Power	---		Power-50%	---	P-value			0.223
Stouffer's		Power	---		Power-50%	0.329	P-value			0.015	Power	0.179		Power-50%	0.238	P-value			0.176	Power	---		Power-50%	---	P-value			0.147
C15.1C/C15.1	2	6	914.65	225.32	6	126.67	122.83	0.3	-	0.012	6	850.72	209.18	6	126.67	122.83	0.4	+	0.014	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	885.65	429.42	6	1048.77	692.06	0.6	-	0.845	6	763.04	432.12	6	1045.68	691.89	0.6	-	0.736	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	2	6	885.65	429.42	6	380.59	155.86	0.5	+	0.295	6	763.04	432.12	6	380.29	155.97	0.6	+	0.424	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			895.32	361.39		518.67	323.58		+			792.27	357.81		517.54	323.56		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.019	Power	---		Power-50%	---	P-value			0.030	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	0.775	P-value			0.026	Power	---		Power-50%	---	P-value			0.046	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	3	0	--	--	2	2.99	2.98	-		---	0	--	--	2	2.99	2.98	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	364.25	101.46	2	76.52	61.42	0.4	+	0.130	3	319.56	101.81	2	76.39	61.29	0.5	+	0.179	3	0.00	0.00	2	0.00	0.00	1.8	+	0.423
50981C/50981	3	3	364.25	101.46	5	1194.29	518.19	0.6	-	0.277	3	319.56	101.81	5	1182.72	513.95	0.6	-	0.257	3	0.00	0.00	5	0.00	0.00	1.0	+	0.423
Habitat Means			364.25	101.46		424.60	194.20		+			319.56	101.81		420.70	192.74		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	0.026		Power-50%	0.167	P-value			0.217 y	Power	0.023		Power-50%	0.159	P-value			0.277 y	Power	---		Power-50%	---	P-value			0.184
Stouffer's		Power	0.037		Power-50%	0.038	P-value			0.381	Power	0.030		Power-50%	0.037	P-value			0.441	Power	---		Power-50%	---	P-value			0.128

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

		Fucus gardneri (P)								Petalonia fascia (AE)								Morphological Group - Coarse Filamentous Browns							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	172.42	85.06	6	44.26	41.74	0.6	-	0.206	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	141.27	64.07	6	486.59	242.58	0.6	-	0.199	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.43	0.24	6	0.00	0.00	0.8	-	0.130
50981C/50981	1	6	141.27	64.07	6	24.22	14.15	0.6	+	0.103	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.43	0.24	6	0.00	0.00	0.8	+	0.034
Habitat Means			151.65	71.07		185.02	99.49		+			0.00	0.00		0.00	0.00		o			0.29	0.16		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value			0.099 y	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.020
Stouffer's		Power	0.161		Power-50%	0.215	P-value			0.176	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.018
C15.1C/C15.1	2	6	850.72	209.18	6	126.67	122.83	0.4	-	0.014	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.01	0.01	6	0.00	0.00	1.4	+	0.363
50981C/50221	2	6	763.04	432.13	6	1045.68	691.89	0.6	-	0.736	6	0.01	0.00	6	0.00	0.00	0.6	+	0.076	6	6.59	3.60	6	0.00	0.00	0.8	+	0.002
50981C/50981	2	6	763.04	432.13	6	380.29	155.97	0.6	+	0.424	6	0.01	0.00	6	0.00	0.00	0.6	+	0.076	6	6.59	3.60	6	0.00	0.00	0.8	-	0.127
Habitat Means			792.26	357.81		517.54	323.56		+			0.00	0.00		0.00	0.00		+			4.39	2.41		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value			0.030	Power	---		Power-50%	---	P-value			0.025	Power	---		Power-50%	---	P-value			0.001
Stouffer's		Power	---		Power-50%	0.709	P-value			0.046	Power	---		Power-50%	---	P-value			0.020	Power	---		Power-50%	---	P-value			0.001
C15.1C/C15.1	3	0	--	--	2	2.99	2.98	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	319.55	101.81	2	76.39	61.29	0.5	-	0.179	3	0.01	0.01	2	0.00	0.00	1.0	+	0.220	3	6.70	5.61	2	0.00	0.00	1.5	+	0.355
50981C/50981	3	3	319.55	101.81	5	1182.72	513.95	0.6	-	0.257	3	0.01	0.01	5	0.00	0.00	0.6	+	0.220	3	6.70	5.61	5	0.00	0.00	0.8	+	0.355
Habitat Means			319.55	101.81		420.70	192.74		+			0.01	0.01		0.00	0.00		+			6.70	5.61		0.00	0.00		+	
Fisher's		Power	0.023		Power-50%	0.128	P-value			0.277 y	Power	---		Power-50%	---	P-value			0.066	Power	0.111		Power-50%	0.111	P-value			0.141
Stouffer's		Power	0.030		Power-50%	0.026	P-value			0.441	Power	---		Power-50%	---	P-value			0.042	Power	---		Power-50%	---	P-value			0.096

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

Table C-3.111. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Estuarine. May 1991. (Continued.)

Site Pair	MVD	Total Dictyosiphon (A) N	C	SE	N	O	SE	CV	D	P	Dictyosiphon sinicola (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.43	0.24	6	0.00	0.00	0.8	+	0.130
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.43	0.24	6	0.00	0.00	0.8	+	0.034
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.29	0.16		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.020
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.018
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.01	0.01	6	0.00	0.00	1.4	-	0.363
50981C/50221	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	6.59	3.60	6	0.00	0.00	0.8	-	0.002
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	6.59	3.60	6	0.00	0.00	0.8	-	0.127
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			4.39	2.41		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.001
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.001
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	6.70	5.61	2	0.00	0.00	1.5	+	0.355
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	6.70	5.61	5	0.00	0.00	0.8	-	0.355
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			6.70	5.61		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	0.106		Power-50%		0.106	P-value		0.141

Fisher's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.096

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Elachista fucicola (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	86.46	85.86	6	0.00	0.00	1.4	-	0.152	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	86.46	85.86	6	0.00	0.00	1.4	-	0.152
50981C/50221	1	6	417.72	209.17	6	0.02	0.02	0.7	+	0.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	417.72	209.17	6	0.02	0.02	0.7	+	0.000
50981C/50981	1	6	417.72	209.17	6	0.00	0.00	0.7	+	0.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	417.72	209.17	6	0.00	0.00	0.7	+	0.000
Habitat Means			307.30	168.07		0.01	0.01		+			0.00	0.00		0.00	0.00		o			307.30	168.07		0.01	0.01		+	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		0.437	P-value		0.000	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.000
C15.1C/C15.1	2	6	63.93	39.55	6	0.00	0.00	0.9	-	0.167	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	63.93	39.55	6	0.00	0.00	0.9	-	0.167
50981C/50221	2	6	116.02	80.83	6	3.09	3.09	1.0	+	0.025	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	116.02	80.83	6	3.09	3.09	1.0	-	0.025
50981C/50981	2	6	116.02	80.83	6	0.30	0.30	1.0	+	0.014	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	116.02	80.83	6	0.30	0.30	1.0	-	0.014
Habitat Means			98.66	67.07		1.13	1.13		+			0.00	0.00		0.00	0.00		o			98.66	67.07		1.13	1.13		+	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.001
Stouffer's		Power	---		Power-50%		0.315	P-value		0.000	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.000
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	37.99	23.02	2	0.13	0.13	1.1	+	0.078	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	37.99	23.02	2	0.13	0.13	1.1	+	0.078
50981C/50981	3	3	37.99	23.02	5	11.57	5.32	0.5	-	0.198	3	0.00	0.00	5	0.00	0.00	1.8	-	0.374	3	37.99	23.02	5	11.56	5.32	0.5	+	0.198
Habitat Means			37.99	23.02		3.90	1.82		-			0.00	0.00		0.00	0.00		-			37.99	23.02		3.90	1.82		+	
Fisher's		Power	---		Power-50%		---	P-value		0.025	Power	---		Power-50%		---	P-value		0.315	Power	---		Power-50%		---	P-value		0.025

Fisher's		Power	---		Power-50%		0.006	P-value		0.016	Power	---		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		0.016

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

Table C-3.111. Algal Biomass. Phaeophyta. Cook Inlet/Kenai. Estuarine. May 1991. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			*0.00*	*0.00*		*0.00*	*0.00*		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Morphological Group - Crustose Browns N	C	SE	N	O	SE	CV	D	P	Ralfsia fungiformis (P) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		*0.500*	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
50981C/50221	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000								
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---								
50981C/50221	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000								
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000								
Habitat Means			0.00	0.00		0.00	*0.00*		o			*0.00*	*0.00*		*0.00*	*0.00*		o									
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

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

Table C-3.112. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Gigartinaceae Group (P) (a)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.89	0.89	6	1.59	1.59	1.0	-	0.709	6	0.89	0.89	6	0.00	0.00	1.4	+	0.370	6	0.00	0.00	6	0.00	0.00		-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	0.8	+	0.549	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.30	0.30		0.53	0.53		+			0.30	0.30		0.00	0.00		+			0.00	0.00		0.00	0.00			o	
Fisher's		Power	0.051		Power-50%		0.181	P-value		0.214	y	Power	0.000		Power-50%		0.000	P-value		0.407	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.167		Power-50%		0.627	P-value		0.180		Power	0.000		Power-50%		0.000	P-value		0.302	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.47	0.47	6	0.01	0.01	1.4	+	0.707	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-		0.363
50981C/50221	2	6	7.95	3.14	6	4.84	4.65	0.6	-	0.592	6	2.17	2.17	6	0.15	0.15	1.3	+	0.900	6	2.17	2.17	6	0.15	0.15	1.3	+		0.861
50981C/50981	2	6	7.95	3.14	6	1.01	0.45	0.5	-	0.069	6	2.17	2.17	6	0.32	0.32	1.2	-	0.614	6	2.17	2.17	6	0.00	0.00	1.4	+		0.363
Habitat Means			5.46	2.25		1.95	1.71		+			1.44	1.44		0.16	0.16		+			1.44	1.44		0.05	0.05			-	
Fisher's		Power	---		Power-50%		---	P-value		0.081	Power	0.000		Power-50%		---	P-value		0.628	Power	---		Power-50%		---	P-value		0.482
Stouffer's		Power	---		Power-50%		0.286	P-value		0.058	Power	0.001		Power-50%		---	P-value		0.564	Power	---		Power-50%		---	P-value		0.460
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	3.18	0.82	2	0.45	0.43	0.4	+	0.091	3	1.85	0.66	2	0.44	0.43	0.6	+	0.217	3	0.00	0.00	2	0.03	0.02	0.6	-		0.184
50981C/50981	3	3	3.18	0.82	5	9.79	5.09	0.7	-	0.369	3	1.85	0.66	5	6.19	4.95	1.1	-	0.536	3	0.00	0.00	5	5.12	5.12	1.8	-		0.795
Habitat Means			3.18	0.83		3.41	1.84		+			1.85	0.66		2.21	1.79		+			0.00	0.00		1.72	1.71			-	
Fisher's		Power	0.088		Power-50%		0.360	P-value		0.160	y	Power	0.098		Power-50%		0.206	P-value		0.281	y	Power	0.186		Power-50%		0.186	P-value		0.158
Stouffer's		Power	0.091		Power-50%		0.049	P-value		0.288		Power	0.146		Power-50%		0.039	P-value		0.332		Power	0.238		Power-50%		---	P-value		0.131

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

		Total Palmaria (A)								Palmaria spp. (A)								Palmaria callophylloides (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
50981C/50221	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
50981C/50981	2	6	0.00	0.00	6	0.17	0.17	1.4	-	0.358	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.06	0.06		-			0.00	0.00		0.06	0.06		-			0.00	0.00		0.00	0.00			o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.400	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.000		Power-50%		---	P-value		0.298	Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	0.00	0.00	2	0.41	0.41	1.0	-	0.503	3	0.00	0.00	2	0.00	0.00		-	o 1.000	3	0.00	0.00	2	0.00	0.00	1.8	+		0.423
50981C/50981	3	3	0.00	0.00	5	0.48	0.48	1.8	-	0.875	3	0.00	0.00	5	0.00	0.00		-	o 1.000	3	0.00	0.00	5	0.00	0.00	1.0	+		0.423
Habitat Means			0.00	0.00		0.30	0.30		-			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00			+	
Fisher's		Power	---		Power-50%		---	P-value		0.353	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.184
Stouffer's		Power	---		Power-50%		---	P-value		0.279	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.128

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

Table C-3.112. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. (Continued.)

Site Pair	MVD	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Palmaria mollis (A) N	C	SE	N	O	SE	CV	D	P	Phycodrys riggii (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	1.4	~	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		~			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.403	Power	---		Power-50%	---	P-value			0.655	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	---		Power-50%	---	P-value			0.300	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.41	0.41	1.0	-	0.500	3	0.00	0.00	2	0.00	0.00	-	o	1.000
50981C/50981	3	3	0.00	0.00	5	0.48	0.48	1.8	~	0.374	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.16	0.16		~			0.00	0.00		0.14	0.14		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.315	Power	---		Power-50%	---	P-value			0.385	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.265	Power	---		Power-50%	---	P-value			0.317	Power	---		Power-50%	---	P-value			0.500

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

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Ahnfeltia fastigata (P) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.69	0.69	6	0.00	0.00	1.4	-	0.370	6	0.00	0.00	6	1.38	1.38	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.8	+	0.549	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.30	0.30		0.00	0.00		+			0.00	0.00		0.53	0.53		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%	0.000	P-value			0.407	Power	0.119		Power-50%	0.362	P-value			0.248 y	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	0.000		Power-50%	0.000	P-value			0.302	Power	0.076		Power-50%	0.362	P-value			0.273	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	5.75	1.87	6	4.69	4.68	0.7	+	0.837	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	2	6	0.00	0.00	6	0.16	0.15	1.4	-	0.352	6	5.75	1.87	6	0.37	0.37	0.4	+	0.003	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.05	0.05		-			3.83	1.25		1.69	1.68		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%	---	P-value			0.219	Power	---		Power-50%	---	P-value			0.017	Power	---		Power-50%	---	P-value			0.655
Stouffer's		Power	0.004		Power-50%	---	P-value			0.144	Power	---		Power-50%	---	P-value			0.091	Power	---		Power-50%	---	P-value			0.500
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	1.84	0.66	2	0.00	0.00	0.6	+	0.109	3	1.22	1.19	2	0.00	0.00	1.7	-	0.413	3	0.00	0.00	2	0.00	0.00	-	o	1.000
50981C/50981	3	3	1.84	0.66	5	0.59	0.53	0.5	+	0.195	3	1.22	1.19	5	3.60	3.43	1.3	-	0.626	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			1.84	0.66		0.20	0.18		+			1.22	1.19		1.20	1.14		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.033	Power	0.063		Power-50%	0.017	P-value			0.419	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	0.004	P-value			0.020	Power	0.105		Power-50%	0.001	P-value			0.407	Power	---		Power-50%	---	P-value			0.500

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

Table C-3.112. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. (Continued.)

Site Pair	MVD	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.58	1.58	1.4	-	0.363
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.53	0.53		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.301 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.300
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.19	0.12	6	4.69	4.68	1.4	-	1.000
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.19	0.12	6	0.00	0.00	0.9	-	0.195
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.12	0.08		1.56	1.56		+	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	0.001		Power-50%		0.001	P-value		0.283 y
Stouffer's		Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.500	Power	0.003		Power-50%		0.343	P-value		0.227
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	-	o	1.000	3	0.00	0.00	2	0.00	0.00	1.8	+	0.423
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	0.00	0.00	5	0.14	0.14	1.8	-	0.932
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.05	0.05		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.359 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		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.

Site Pair	MVD	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
50981C/50221	2	6	5.56	1.91	6	0.00	0.00	0.5	+	0.033	6	5.56	1.91	6	0.00	0.00	0.5	+	0.033	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	2	6	5.56	1.91	6	0.37	0.37	0.5	+	0.029	6	5.56	1.91	6	0.37	0.37	0.5	+	0.029	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			3.71	1.27		0.12	0.12		+			3.71	1.27		0.12	0.12		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		0.023	P-value		0.006	Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.300
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	0.93	0.91	2	0.00	0.00	1.7	+	0.412	3	0.93	0.91	2	0.00	0.00	1.7	+	0.412	3	0.28	0.28	2	0.00	0.00	1.8	+	0.423
50981C/50981	3	3	0.93	0.91	5	3.46	3.46	1.5	-	0.607	3	0.93	0.91	5	3.46	3.46	1.5	-	0.607	3	0.28	0.28	5	0.00	0.00	1.0	+	0.439
Habitat Means			0.93	0.91		1.15	1.15		+			0.93	0.91		1.15	1.15		+			0.28	0.28		0.00	0.00		+	
Fisher's		Power	0.029		Power-50%		0.011	P-value		0.422 y	Power	0.028		Power-50%		0.005	P-value		0.422 y	Power	---		Power-50%		---	P-value		0.189
Stouffer's		Power	0.062		Power-50%		0.002	P-value		0.414	Power	0.061		Power-50%		0.002	P-value		0.414	Power	---		Power-50%		---	P-value		0.133

(b) Neorhodomela larix not included.

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

Table C-3.112. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Reds								Antithamnion/Antithamnionella (A) (b)								Audouinella purpurea (AE)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.47	0.47	6	0.00	0.00	1.4	+	0.627	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
50981C/50221	2	6	0.04	0.03	6	0.00	0.00	1.2	+	0.490	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.03	0.03	6	0.00	0.00	1.4	-	0.363
50981C/50981	2	6	0.04	0.03	6	0.00	0.00	1.3	+	0.432	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.03	0.03	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.18	0.18		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.02	0.02		0.00	0.00		+	
Fisher's		Power	0.072		Power-50%		0.116	P-value		0.224	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.223
Stouffer's		Power	0.252		Power-50%		0.400	P-value		0.129	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.147
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	0.12	0.12	2	0.02	0.01	1.6	+	0.548	3	0.00	0.00	2	0.00	0.00		- o	1.000	3	0.12	0.12	2	0.00	0.00	1.8	+	0.423
50981C/50981	3	3	0.12	0.12	5	0.00	0.00	1.0	+	0.471	3	0.00	0.00	5	0.00	0.00		- o	1.000	3	0.12	0.12	5	0.00	0.00	1.0	+	0.423
Habitat Means			0.12	0.12		0.01	0.00		+			0.00	0.00		0.00	0.00		o			0.12	0.12		0.00	0.00		+	
Fisher's		Power	0.143		Power-50%		---	P-value		0.241	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.184
Stouffer's		Power	0.175		Power-50%		---	P-value		0.175	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.128

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

Site Pair	MVD	Polysiphonia/Pterosiphonia (A) (a)								Morphological Group - Saccate Reds								Total Halosaccion (A)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
50981C/50221	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
50981C/50981	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	2	6	0.47	0.47	6	0.00	0.00	1.4	+	0.627	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
50981C/50221	2	6	0.00	0.00	6	0.00	0.00	1.1	-	0.664	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
50981C/50981	2	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.32	0.32	1.4	-	0.363	6	0.00	0.00	6	0.32	0.32	1.4	-	0.363
Habitat Means			0.16	0.16		0.00	0.00		+			0.00	0.00		0.11	0.11		-			0.00	0.00		0.11	0.11		-	
Fisher's		Power	---		Power-50%		---	P-value		0.608	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.488	Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value		0.300
C15.1C/C15.1	3	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---
50981C/50221	3	3	0.00	0.00	2	0.02	0.01	0.3	-	0.205	3	0.00	0.00	2	0.00	0.00	1.8	-	0.423	3	0.00	0.00	2	0.00	0.00	1.8	+	0.423
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	1.8	-	0.374	3	0.00	0.00	5	0.00	0.00	1.0	+	0.423	3	0.00	0.00	5	0.00	0.00	1.0	-	0.423
Habitat Means			0.00	0.00		0.01	0.00		-			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.095	Power	---		Power-50%		---	P-value		0.184	Power	---		Power-50%		---	P-value		0.184
Stouffer's		Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		0.128	Power	---		Power-50%		---	P-value		0.128

(a) Genera not separated.

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

Table C-3.112. Algal Biomass. Rhodophyta. Cook Inlet/Kenai. Estuarine. May 1991. (Continued.)

		Halosaccion glandiforme (A)																			
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		
[illegible]		[illegible]																			
50981C/50221	1	6	0.00	0.00	6	0.00	0.00		-	1.000											
50981C/50981	1	6	0.00	0.00	6	0.00	0.00		-	1.000											
Habitat Means			0.00	0.00		0.00	0.00														
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value
C15.1C/C15.1	2	6	0.00	0.00	6	0.00	0.00		-	1.000											
50981C/50221	2	6	0.00	0.00	6	0.00	0.00		-	1.000											
50981C/50981	2	6	0.00	0.00	6	0.32	0.32	1.4	-	0.363											
Habitat Means			0.00	0.00		0.11	0.11														
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.300	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value
C15.1C/C15.1	3	0	--	--	2	0.00	0.00		-	---											
50981C/50221	3	3	0.00	0.00	2	0.00	0.00	1.8	+	0.423											
50981C/50981	3	3	0.00	0.00	5	0.00	0.00	1.0	+	0.423											
Habitat Means			0.00	0.00		0.00	0.00														
Fisher's		Power	---		Power-50%		---	P-value		0.184	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value
Stouffer's		Power	---		Power-50%		---	P-value		0.128	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value

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

Table C-3.113. Algal Biomass. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	1.00	0.00	-		---	0	--	--	3	30.67	9.84	-		---	0	--	--	3	30.67	9.84	-		---
31252C/31248	1	0	--	--	3	0.33	0.33	-		---	0	--	--	3	764.67	764.67	-		---	0	--	--	3	764.67	764.67	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.33	0.33	1	0.00	--	-	+	---	3	6.00	6.00	1	0.00	--	-	+	---	3	6.00	6.00	1	0.00	--	-	+	---
Habitat Means			0.33	0.33		0.44	0.17					6.00	6.00		265.11	387.25					*6.00*	*6.00*		265.11	387.25			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	1.33	0.88	-		---	0	--	--	3	54.01	43.92	-		---	0	--	--	3	54.01	43.92	-		---
31252C/31248	2	0	--	--	3	1.00	0.00	-		---	0	--	--	3	925.33	753.73	-		---	0	--	--	3	925.33	753.73	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	*0*	--	--	*0*	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	1.00	0.00	1	1.00	--	-	o	---	2	83.00	27.00	1	12.00	--	-	+	---	2	83.00	27.00	1	12.00	--	-	+	---
Habitat Means			1.00	0.00		1.11	0.44					83.00	27.00		330.45	398.82					83.00	27.00		330.45	398.82			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		0.000	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	1.00	0.00	-		---	0	--	--	3	75.67	9.53	-		---	0	--	--	3	75.67	9.53	-		---
31252C/31248	3	0	--	--	3	1.00	0.00	-		---	0	--	--	3	1548.33	772.39	-		---	0	--	--	3	1548.33	772.39	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	1.00	--	1	1.00	--	-	o	---	1	6.00	--	1	766.01	--	-	-	---	1	6.00	--	1	766.01	--	-	-	---
Habitat Means			1.00	--		1.00	0.00					6.00	--		796.67	390.96					6.00	--		796.67	390.96			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) 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.

		Annuals (A)								Ephemerals (AE)																	
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
99826C/33141	2	2	*0.00*	*0.00*	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---									
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.114. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Genera not separated.

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

Table C-3.114. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989. (Continued.)

		Morphological Group - Fine Filamentous Greens								Unidentified Green Fine Filaments								Acrosiphonia sp. (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Total Chaetomorpha/Rhizoclonium (A)								Chaetomorpha/Rhizoclonium spp. (A) (b)								Cladophora sp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Chaetomorpha melagonium not included.

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

Table C-3.114. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---									
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---									
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.115. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Unidentified Bladed Browns							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	30.67	9.84	-		---	0	--	--	3	30.67	9.84	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	764.67	764.67	-		---	0	--	--	3	764.67	764.67	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	6.00	6.00	1	0.00	--	-	+	---	3	6.00	6.00	1	0.00	--	-	+	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			6.00	6.00		265.11	387.25					6.00	6.00		265.11	387.25					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	47.01	47.00	-		---	0	--	--	3	47.01	47.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	925.33	753.73	-		---	0	--	--	3	925.33	753.73	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	83.00	27.00	1	12.00	--	-	+	---	2	83.00	27.00	1	12.00	--	-	+	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			83.00	27.00		328.11	400.36					83.00	27.00		328.11	400.36					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		0.000	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	75.67	9.53	-		---	0	--	--	3	75.67	9.53	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	1548.33	772.39	-		---	0	--	--	3	1548.33	772.39	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	6.00	--	1	766.01	--	-	-	---	1	6.00	--	1	766.01	--	-	-	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			6.00	--		796.67	390.96					6.00	--		796.67	390.96					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Alaria sp. (A)								Fucus gardneri (P)								Laminaria sp. (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	30.67	9.84	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	764.67	764.67	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	6.00	6.00	1	0.00	--	-	+	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					6.00	6.00		265.11	387.25					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	47.01	47.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	925.33	753.73	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	83.00	27.00	1	12.00	--	-	+	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					83.00	27.00		328.11	400.36					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	75.67	9.53	-		---	0	--	--	3	0.00	0.00			
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	1548.33	772.39	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	6.00	--	1	766.01	--	-	-	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					6.00	--		796.67	390.96					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.115. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Browns									Chordaria flagelliformis (A)										Myelophycus/Scytosiphon (A) (a)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---		3	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00						0.00	0.00		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---		2	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00						0.00	0.00		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---		1	0.00	--	1	0.00	--	-	o	---	
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00						0.00	--		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns									Ectocarpus sp. (AE)										Pilayella sp. (AE)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---		3	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00						0.00	0.00		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---		2	0.00	0.00	1	0.00	--	-	o	---	
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00						0.00	0.00		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---		1	0.00	--	1	0.00	--	-	o	---	
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00						0.00	--		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

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

Table C-3.115. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	*Soranthera ulvoidea* (A) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
31252C/31248	1	0	--	--	3	0.00	0.00	-		---																		
31252C/31252	1	0	--	--	0	--	--	-		---																		
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---																		
Habitat Means			0.00	0.00		0.00	0.00																					
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
30196C/30196	2	0	--	--	3	0.00	0.00	-		---																		
31252C/31248	2	0	--	--	3	0.00	0.00	-		---																		
31252C/31252	2	0	--	--	0	--	--	-		---																		
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---																		
Habitat Means			0.00	0.00		0.00	0.00																					
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
30196C/30196	3	0	--	--	3	0.00	0.00	-		---																		
31252C/31248	3	0	--	--	3	0.00	0.00	-		---																		
31252C/31252	3	0	--	--	0	--	--	-		---																		
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---																		
Habitat Means			0.00	--		0.00	0.00																					
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		

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

Table C-3.116. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Unidentified Red Blades							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	7.00	7.00	-		---	0	--	--	3	7.00	7.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		2.33	3.50					0.00	0.00		2.33	3.50					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

		Bangia sp. (AE)								Gigartinaceae Group (P) (a)								Total Palmaria (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	7.00	7.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		2.33	3.50					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.116. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Palmaria spp. (A) N	C	SE	N	O	SE	CV D	P	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV D	P	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
31252C/31248	1	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
31252C/31252	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---
99826C/33141	1	3	0.00	0.00	1	0.00	--	- o	---	3	0.00	0.00	1	0.00	--	- o	---	3	0.00	0.00	1	0.00	--	- o	---
Habitat Means			0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00		
Fisher's		Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---
Stouffer's		Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
31252C/31248	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
31252C/31252	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---
99826C/33141	2	2	0.00	0.00	1	0.00	--	- o	---	2	0.00	0.00	1	0.00	--	- o	---	2	0.00	0.00	1	0.00	--	- o	---
Habitat Means			0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00		
Fisher's		Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---
Stouffer's		Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
31252C/31252	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	-	0	--	--	-	---
99826C/33141	3	1	*0.00*	--	1	0.00	--	- o	---	1	0.00	--	1	0.00	--	- o	---	1	0.00	--	1	0.00	--	- o	---
Habitat Means			0.00	--		0.00	0.00				0.00	--		0.00	0.00				0.00	--		0.00	0.00		
Fisher's		Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---
Stouffer's		Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---

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

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV D	P	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV D	P
31252C/31248	1	0	--	--	3	*0.00*	*0.00*	-	---	*0*	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
31252C/31252	1	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---
99826C/33141	1	3	0.00	0.00	1	0.00	--	- o	---	3	0.00	0.00	1	0.00	--	- o	---	3	0.00	0.00	1	0.00	--	- o	---
Habitat Means			0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00		
Fisher's		Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---
Stouffer's		Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
31252C/31248	2	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
31252C/31252	2	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---
99826C/33141	2	2	0.00	0.00	1	0.00	--	- o	---	2	0.00	0.00	1	0.00	--	- o	---	2	0.00	0.00	1	0.00	--	- o	---
Habitat Means			0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00				0.00	0.00		0.00	0.00		
Fisher's		Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---
Stouffer's		Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---
30196C/30196	3	0	--	--	3	*0.00*	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
31252C/31248	3	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---	0	--	--	3	0.00	0.00	-	---
31252C/31252	3	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---	0	--	--	0	--	--	-	---
99826C/33141	3	1	0.00	--	1	0.00	--	- o	---	1	0.00	--	1	0.00	--	- o	---	1	0.00	--	1	0.00	--	- o	---
Habitat Means			0.00	--		0.00	0.00				0.00	--		0.00	0.00				0.00	--		0.00	0.00		
Fisher's		Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---
Stouffer's		Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---	Power	---		Power-50%		--- P-value		---

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

Table C-3.116. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Dumontia contorta (AE) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.116. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVD	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Unidentified Red Fine Filaments N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Table C-3.116. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989. (Continued.)

Site Pair	MVT	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P	Erythrotrichia sp. (AE) N	C	SE	N	O	SE	CV	D	P
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

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

Site Pair	MVT	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Tiffaniella snyderae (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	3	0.00	0.00	-			0			3	0.00	0.00				0			3	0.00	0.00			
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00					0.00	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

(a) Genera not separated.

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

Table C-3.116. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. September 1989. (Continued.)

		Total Halosaccion (A)								Halosaccion glandiforme (A)																			
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
30196C/30196	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---										
31252C/31248	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---										
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---										
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---										
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00													
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
30196C/30196	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---										
31252C/31248	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---										
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---										
99826C/33141	2	2	0.00	0.00	1	0.00	--	-	o	---	2	0.00	0.00	1	0.00	--	-	o	---										
Habitat Means			0.00	0.00		0.00	0.00					0.00	0.00		0.00	0.00													
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
30196C/30196	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---										
31252C/31248	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---										
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---										
99826C/33141	3	1	0.00	--	1	0.00	--	-	o	---	1	0.00	--	1	0.00	--	-	o	---										
Habitat Means			0.00	--		0.00	0.00					0.00	--		0.00	0.00													
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			

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

Table C-3.117. Algal Biomass. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)							Total Algae							Perennials (P)						
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	1.50	0.67	6	2.50	0.96	0.4	-	0.412	6	1263.50	791.95	6	1159.68	450.31	0.5	+	0.912	6	1263.50	791.95	6	1053.17	486.11	0.6	+	0.826
31252C/31248	1	6	0.67	0.21	6	0.50	0.22	0.4	+	0.600	6	670.67	306.68	6	979.33	636.56	0.6	-	0.672	6	670.67	306.68	6	979.33	636.56	0.6	-	0.672
31252C/31252	1	6	0.67	0.21	6	0.33	0.33	0.6	+	0.418	6	670.67	306.68	6	132.84	132.84	0.6	+	0.139	6	670.67	306.68	6	132.83	132.83	0.6	+	0.139
99826C/33141	1	6	0.83	0.48	6	1.00	0.63	0.6	-	0.838	6	63.67	36.96	6	244.84	157.62	0.7	-	0.892	6	63.00	36.37	6	244.67	157.46	0.7	-	0.891
Habitat Means			0.92	0.39		1.08	0.54		-			667.13	360.56		629.17	344.33		+			666.96	360.42		602.50	353.24		+	
Fisher's		Power	0.065		Power-50%		0.810	P-value		0.638	Power	0.030		Power-50%		0.330	P-value		0.350	Power	0.032		Power-50%		0.032	P-value		0.333
Stouffer's		Power	0.071		Power-50%		0.777	P-value		0.444	Power	0.022		Power-50%		0.349	P-value		0.341	Power	0.038		Power-50%		0.353	P-value		0.309
30196C/30196	2	6	3.67	1.33	6	6.33	1.09	0.2	-	0.152	6	2590.50	869.55	6	3119.01	765.14	0.3	-	0.658	6	2097.17	932.95	6	2824.17	742.76	0.3	-	0.556
31252C/31248	2	6	2.67	0.92	6	1.17	0.31	0.4	+	0.153	6	1493.67	664.04	6	548.17	283.58	0.5	+	0.220	6	1490.67	664.35	6	546.67	284.14	0.5	+	0.221
31252C/31252	2	6	2.67	0.92	6	2.33	1.23	0.4	+	0.832	6	1493.67	664.04	6	111.50	63.67	0.6	+	0.072	6	1490.67	664.35	6	81.17	42.93	0.6	+	0.068
99826C/33141	2	6	2.00	0.86	6	1.83	0.98	0.5	+	0.901	6	397.84	189.01	6	40.51	36.79	0.6	+	0.374	6	348.50	187.63	6	40.17	36.86	0.7	+	0.686
Habitat Means			2.75	1.01		2.92	0.90		+			1493.92	596.66		954.80	287.30		+			1356.75	612.32		873.04	276.67		+	
Fisher's		Power	0.153		Power-50%		0.867	P-value		0.373 y	Power	---		Power-50%		---	P-value		0.055	Power	---		Power-50%		---	P-value		0.083
Stouffer's		Power	0.014		Power-50%		0.814	P-value		0.656	Power	0.183		Power-50%		0.300	P-value		0.178	Power	0.159		Power-50%		0.307	P-value		0.218
30196C/30196	3	5	6.40	1.29	6	10.50	1.23	0.1	-	0.048	5	4413.61	1092.31	6	3685.68	492.81	0.2	-	0.534	5	3419.60	911.36	6	1505.67	533.42	0.3	+	0.091
31252C/31248	3	6	4.00	0.73	5	2.00	0.71	0.2	+	0.084	6	189.50	83.47	5	930.00	877.38	1.0	-	0.420	6	174.83	82.85	5	918.00	879.93	1.0	-	0.221
31252C/31252	3	6	4.00	0.73	6	5.17	1.58	0.3	-	0.518	6	189.50	83.47	6	834.68	525.99	0.7		0.877	6	174.83	82.85	6	644.50	402.12	0.7	-	0.469
99826C/33141	3	1	0.00	--	6	4.50	2.16	-	-	---	1	0.00	--	6	881.01	813.64	-	-	---	1	0.00	--	6	745.17	712.27	-	-	---
Habitat Means			3.60	0.92		5.54	1.42		-			1198.15	419.75		1582.84	677.45		-			942.32	359.02		953.33	631.94		-	
Fisher's		Power	0.141		Power-50%		0.999	P-value		0.114x	Power	0.031		Power-50%		0.326	P-value		0.495	Power	0.005		Power-50%		0.005	P-value		0.285x
Stouffer's		Power	0.080		Power-50%		0.996	P-value		0.154	Power	0.049		Power-50%		0.375	P-value		0.528	Power	0.009		Power-50%		0.389	P-value		0.703

(a) 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.

		Annuals (A)							Ephemerals (AE)													
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	106.51	106.50	1.4	-	0.363	6	0.00	0.00	6	53.84	53.84	1.4	-	0.363									
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	1	6	0.67	0.67	6	0.17	0.17	1.2	+	0.924	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363									
Habitat Means			0.17	0.17		26.67	26.67		-			0.00	0.00		13.46	13.46		-										
Fisher's		Power	0.000		Power-50%		---	P-value		0.306	Power	0.000		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.002		Power-50%		---	P-value		0.147	Power	0.000		Power-50%		---	P-value		0.212	Power	---		Power-50%		---	P-value		
30196C/30196	2	6	493.34	482.17	6	294.84	103.17	0.9	+	0.130	6	0.00	0.00	6	1.50	1.50	1.4	-	0.363									
31252C/31248	2	6	3.00	1.55	6	1.50	1.50	0.7	+	0.502	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	2	6	3.00	1.55	6	30.34	29.74	1.3	-	0.700	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363									
99826C/33141	2	6	49.33	25.32	6	0.34	0.34	0.7	+	0.316	6	0.00	0.00	6	0.34	0.34	1.4	-	0.363									
Habitat Means			137.17	127.65		81.75	33.69		+			0.00	0.00		0.54	0.54		-										
Fisher's		Power	0.101		Power-50%		0.326	P-value		0.120	Power	---		Power-50%		---	P-value		0.169	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		0.345	P-value		0.071	Power	---		Power-50%		---	P-value		0.131	Power	---		Power-50%		---	P-value		
30196C/30196	3	5	994.00	377.58	6	2180.02	469.67	0.3	-	0.089	5	3.00	3.00	6	279.01	193.63	1.1	-	0.097									
31252C/31248	3	6	14.67	3.42	5	12.00	9.30	0.5	+	0.779	6	0.17	0.17	5	0.00	0.00	1.6	-	0.363									
31252C/31252	3	6	14.67	3.42	6	190.18	142.86	1.0	-	0.315	6	0.17	0.17	6	0.01	0.00	1.4	+	0.951									
99826C/33141	3	1	0.00	--	6	135.84	103.83	-	-	---	1	0.00	--	6	20.17	19.97	-	-	---									
Habitat Means			255.84	128.14		629.51	181.41		-			0.83	1.11		74.80	53.40		+										
Fisher's		Power	---		Power-50%		---	P-value		0.091	Power	0.001		Power-50%		0.012	P-value		0.544xy	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		0.342	P-value		0.054	Power	0.003		Power-50%		0.069	P-value		0.815	Power	---		Power-50%		---	P-value		

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

Table C-3.118. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	4.17	4.17	1.4	-	0.363	6	0.00	0.00	6	0.58	0.58	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		1.04	1.04		-			0.00	0.00		0.15	0.15		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.294	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		---	P-value		0.212	Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.17	0.17	6	2.17	1.38	0.8	-	0.633	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	1.34	0.99	1.0	-	0.236	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.34	0.34	1.4	-	0.363	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.04	0.04		0.96	0.68		-			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.036		Power-50%		0.000	P-value		0.181	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.082		Power-50%		0.002	P-value		0.191	Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	5	91.40	82.75	6	300.01	189.45	0.8	-	0.373	5	3.00	3.00	6	55.83	44.13	1.2	-	0.571	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.33	0.21	5	0.00	0.00	1.0	-	0.175	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.33	0.21	6	0.00	0.00	0.9	+	0.497	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	6	9.17	8.97	-	-	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
Habitat Means			23.02	27.72		77.30	49.60		+			0.75	1.00		13.96	11.03		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.048		Power-50%		0.150	P-value		0.233 y	Power	0.002		Power-50%		---	P-value		0.508	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.129		Power-50%		0.308	P-value		0.437	Power	0.012		Power-50%		---	P-value		0.324	Power	---		Power-50%		---	P-value		0.500

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.58	0.58	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.15	0.15		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	5	0.00	0.00	6	22.50	22.50	1.6	-	0.363	5	3.00	3.00	6	33.33	22.94	1.0	-	0.583	5	3.00	3.00	6	33.33	22.94	1.0	-	0.583
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		5.63	5.63		-			0.75	1.00		8.33	5.73		-			0.75	1.00		8.33	5.73		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	0.010		Power-50%		---	P-value		0.514	Power	0.009		Power-50%		0.009	P-value		0.514
Stouffer's		Power	---		Power-50%		---	P-value		0.231	Power	0.038		Power-50%		---	P-value		0.329	Power	0.039		Power-50%		---	P-value		0.329

(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-3.118. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Unidentified Green Fine Filaments N	C	SE	N	O	SE	CV	D	P	Acrosiphonia sp. (A) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.056		Power-50%		---	P-value		0.198	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.071		Power-50%		---	P-value		0.123	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.17	0.17	6	2.17	1.38	0.8	-	0.633	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	0.33	0.33	1.1	-	0.667
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	1.00	1.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.04	0.04		0.79	0.60		-			0.00	0.00		0.00	0.00		o			0.04	0.04		0.08	0.08		-	
Fisher's		Power	0.011		Power-50%		0.000	P-value		0.231	Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.608
Stouffer's		Power	0.077		Power-50%		0.001	P-value		0.219	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.365
30196C/30196	3	5	88.40	83.44	6	244.18	147.87	0.8	-	0.409	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	88.40	83.44	6	74.50	56.04	0.8	-	0.890
31252C/31248	3	6	0.17	0.17	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.17	0.17	5	0.00	0.00	1.6	-	0.363
31252C/31252	3	6	0.17	0.17	6	0.00	0.00	1.4	+	0.999	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	0.00	0.00	1.4	-	0.363
99826C/33141	3	1	0.00	--	6	9.01	9.00	-	-	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	9.00	9.00	-	-	---
Habitat Means			22.18	27.93		63.30	39.22		-			0.00	0.00		0.00	0.00		o			22.18	27.93		20.88	16.26		+	
Fisher's		Power	0.009		Power-50%		0.018	P-value		0.511 y	Power	---		Power-50%		---	P-value		0.655	Power	0.036		Power-50%		0.036	P-value		0.207
Stouffer's		Power	0.061		Power-50%		0.095	P-value		0.595	Power	---		Power-50%		---	P-value		0.500	Power	0.103		Power-50%		0.147	P-value		0.194

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
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		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.295
Stouffer's		Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.222
30196C/30196	2	6	0.00	0.00	6	0.67	0.67	1.4	-	0.363	6	0.00	0.00	6	0.67	0.67	1.4	-	0.363	6	0.00	0.00	6	1.17	1.17	1.4	-	0.363
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	1.00	1.00	1.4	-	0.363	6	0.00	0.00	6	1.00	1.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.42	0.42		-			0.00	0.00		0.42	0.42		-			0.00	0.00		0.29	0.29		-	
Fisher's		Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.295
Stouffer's		Power	---		Power-50%		---	P-value		0.145	Power	---		Power-50%		---	P-value		0.145	Power	---		Power-50%		---	P-value		0.212
30196C/30196	3	5	0.00	0.00	6	0.01	0.00	1.1		0.203	5	0.00	0.00	6	0.01	0.00	1.1	-	0.203	5	0.00	0.00	6	169.67	152.16	1.4	-	0.076
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
99826C/33141	3	1	0.00	--	6	0.00	0.00	-	-	---	1	0.00	--	6	0.00	0.00	-	-	---	1	0.00	--	6	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		42.42	38.04		-	
Fisher's		Power	0.101		Power-50%		---	P-value		0.154	Power	0.094		Power-50%		---	P-value		0.154	Power	---		Power-50%		---	P-value		0.079
Stouffer's		Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.039

(b) Chaetomorpha melagonium not included.

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

Table C-3.118. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	3.58	3.58	1.4	-	0.363
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.90	0.90	-		
Fisher's	Power		---		Power-50%		---	P-value		0.477	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value	0.477
Stouffer's	Power		---		Power-50%		---	P-value		0.232	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.232
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08	-		
Fisher's	Power		---		Power-50%		---	P-value		0.477	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value	0.477
Stouffer's	Power		---		Power-50%		---	P-value		0.474	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.373
30196C/30196	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.17	0.17	5	0.00	0.00	1.6	+	0.363
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363
99826C/33141	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.17	0.17	-	-	---
Habitat Means			0.00	0.00		0.00	0.00	-				0.00	0.00		0.00	0.00		o			0.08	0.11		0.04	0.04	-		
Fisher's	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value		0.655	Power		---		Power-50%		---	P-value	0.223
					Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	0.226

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

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.90	0.90	-				0.00	0.00		0.90	0.90	-											
Fisher's	Power		---		Power-50%		---	P-value		0.477	Power		---		Power-50%		---	P-value		0.477	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.232	Power		---		Power-50%		---	P-value		0.232	Power		---		Power-50%		---	P-value	
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	2	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363									
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.08	0.08	-				0.00	0.00		0.08	0.08	-											
Fisher's	Power		---		Power-50%		---	P-value		0.477	Power		---		Power-50%		---	P-value		0.477	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.373	Power		---		Power-50%		---	P-value		0.373	Power		---		Power-50%		---	P-value	
30196C/30196	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31248	3	6	0.17	0.17	5	0.00	0.00	1.6	+	0.363	6	0.17	0.17	5	0.00	0.00	1.6	+	0.363									
31252C/31252	3	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363									
99826C/33141	3	1	0.00	--	6	0.17	0.17	-	-	---	1	0.00	--	6	0.17	0.17	-	-	---									
Habitat Means			0.08	0.11		0.04	0.04	-				0.08	0.11		0.04	0.04	-											
Fisher's	Power		---		Power-50%		---	P-value		0.223	Power		---		Power-50%		---	P-value		0.223	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.226	Power		---		Power-50%		---	P-value		0.226	Power		---		Power-50%		---	P-value	

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.119. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Unidentified Bladed Browns							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	1262.17	791.95	6	864.17	455.72	0.6	+	0.672	6	1262.17	791.95	6	814.50	470.53	0.6	+	0.638	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	670.67	306.68	6	979.33	636.56	0.6	-	0.672	6	670.67	306.68	6	979.33	636.56	0.6	-	0.672	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	670.67	306.68	6	132.83	132.83	0.6	+	0.139	6	670.67	306.68	6	132.83	132.83	0.6	+	0.139	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	63.00	36.37	6	244.67	157.46	0.7	-	0.891	6	63.00	36.37	6	244.67	157.46	0.7	-	0.891	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			666.63	360.42		555.25	345.64		+			666.63	360.42		542.83	349.35		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.038		Power-50%		0.355	P-value		0.301	Power	0.044		Power-50%		0.349	P-value		0.293	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.034		Power-50%		0.346	P-value		0.254	Power	0.043		Power-50%		0.374	P-value		0.242	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	1187.00	755.67	6	1055.17	581.75	0.6	+	0.893	6	1187.00	755.67	6	1052.00	582.87	0.6	+	0.890	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	1252.83	676.11	6	546.00	284.38	0.6	+	0.358	6	1252.83	676.11	6	546.00	284.38	0.6	+	0.358	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	1252.83	676.11	6	40.34	39.34	0.7	+	0.009	6	1252.83	676.11	6	40.00	39.40	0.7	+	0.007	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	345.50	187.34	6	39.83	36.52	0.7	+	0.687	6	345.50	187.34	6	39.83	36.52	0.7	+	0.687	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1009.54	573.81		420.33	235.50		-			1009.54	573.81		419.46	235.80		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.021	Power	---		Power-50%		---	P-value		0.018	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		0.292	P-value		0.067	Power	---		Power-50%		---	P-value		0.063	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	5	3449.80	912.61	6	1252.84	635.47	0.3	+	0.073	5	3449.80	912.61	6	1199.33	595.08	0.3	+	0.062	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	153.50	68.46	5	721.00	684.51	1.0	-	0.221	6	153.50	68.46	5	721.00	684.51	1.0	-	0.221	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	153.50	68.46	6	560.51	334.08	0.7	-	0.479	6	153.50	68.46	6	556.00	331.51	0.7	-	0.478	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	6	777.84	739.69	-	-	---	1	0.00	--	6	748.00	715.88	-	-	---	1	0.00	--	6	0.00	0.00	-	o	---
Habitat Means			939.20	349.85		828.04	598.44		-			939.20	349.85		806.08	581.74		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.004		Power-50%		0.384	P-value		0.291xy	Power	0.002		Power-50%		0.401	P-value		0.292xy	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.007		Power-50%		0.409	P-value		0.733	Power	0.006		Power-50%		0.404	P-value		0.753	Power	---		Power-50%		---	P-value		0.500

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

		Alaria sp. (A)								Fucus gardneri (P)								Laminaria sp. (P)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1262.17	791.95	6	814.50	470.53	0.6	+	0.638	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	670.67	306.68	6	979.33	636.56	0.6	-	0.672	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	670.67	306.68	6	132.83	132.83	0.6	+	0.139	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	63.00	36.37	6	244.67	157.46	0.7	-	0.891	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			666.63	360.42		542.83	349.35		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.044		Power-50%		0.349	P-value		0.293	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.047		Power-50%		0.353	P-value		0.242	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1187.00	755.67	6	1052.00	582.87	0.6	-	0.890	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1252.83	676.11	6	546.00	284.38	0.6	-	0.358	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1252.83	676.11	6	40.00	39.40	0.7	+	0.007	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	345.50	187.34	6	39.83	36.52	0.7	+	0.687	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1009.54	573.81		419.46	235.80		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.018	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.063	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	5	40.60	39.61	6	380.50	379.90	1.4	-	0.915	5	3409.20	909.31	6	813.33	563.83	0.3	+	0.033	5	0.00	0.00	6	5.50	5.50	1.6	-	0.363
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	153.50	68.46	5	721.00	684.51	1.0	-	0.221	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	153.50	68.46	6	556.00	331.51	0.7	-	0.478	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	6	7.50	7.50	-	-	---	1	0.00	--	6	740.50	708.39	-	-	---	1	0.00	--	6	0.00	0.00	-	o	---
Habitat Means			10.15	13.20		97.00	96.85		-			929.05	348.75		707.71	572.06		-			0.00	0.00		1.38	1.38		-	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.631	Power	0.003		Power-50%		0.402	P-value		0.294xy	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.000		Power-50%		0.002	P-value		0.466	Power	0.005		Power-50%		0.432	P-value		0.816	Power	---		Power-50%		---	P-value		0.231

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

Table C-3.119. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Browns								Chordaria flagelliformis (A)								Myelophycus/Scytosiphon (A) (a)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	2.83	2.83	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	2.83	2.83	1.4	-	0.363
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.71	0.71		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.71	0.71		-	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.232
30196C/30196	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	4.50	3.07	1.0	-	0.203	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	4.50	3.07	1.0	-	0.203
99826C/33141	3	1	0.00	--	6	9.83	6.23	-	-	---	1	0.00	--	6	5.17	5.17	-	-	---	1	0.00	--	6	4.67	4.67	-	-	---
Habitat Means			0.00	0.00		3.58	2.33		-			0.00	0.00		1.29	1.29		o			0.00	0.00		2.29	1.94		-	
Fisher's		Power	0.014		Power-50%		---	P-value		0.290	Power	---		Power-50%		---	P-value		0.655 y	Power	0.013		Power-50%		0.013	P-value		0.290
Stouffer's		Power	0.001		Power-50%		---	P-value		0.324	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		---	P-value		0.324

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns								Ectocarpus sp. (AE)								Pilayella sp. (AE)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	49.67	49.67	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	49.67	49.67	1.4	-	0.363
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		12.42	12.42		-			0.00	0.00		0.00	0.00		o			0.00	0.00		12.42	12.42		-	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.232
30196C/30196	2	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.232
30196C/30196	3	5	0.00	0.00	6	53.50	49.99	1.5	-	0.333	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	53.50	49.99	1.5	-	0.333
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	6	20.00	20.00	-	-	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	20.00	20.00	-	-	---
Habitat Means			0.00	0.00		18.38	17.50		-			0.00	0.00		0.00	0.00		o			0.00	0.00		18.38	17.50		-	
Fisher's		Power	0.003		Power-50%		---	P-value		0.131	Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.000	P-value		0.385
Stouffer's		Power	0.011		Power-50%		---	P-value		0.103	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.217

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

Table C-3.119. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.34	0.34	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.373	Power	---		Power-50%		---	P-value		0.373
30196C/30196	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
99826C/33141	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
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	0.016		Power-50%		---	P-value		0.265	Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.016		Power-50%		---	P-value		0.314	Power	---		Power-50%		---	P-value		0.373	Power	---		Power-50%		---	P-value		0.373

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

Site Pair	MVD	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
31252C/31252	2	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363																		
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.08	0.08		-																			
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.373	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000																		
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000																		
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
99826C/33141	3	1	0.00	--	6	0.00	0.00	-	o	---																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	-		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.120. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Unidentified Red Blades							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	1.34	0.88	6	291.34	233.90	1.1	-	0.535	6	0.50	0.34	6	291.34	233.90	1.1	-	0.469	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
99826C/33141	1	6	0.67	0.67	6	0.17	0.17	1.2	+	0.923	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.50	0.39		72.88	58.52		-			0.29	0.25		72.83	58.47		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.029	P-value		0.370	Power	0.000		Power-50%		0.012	P-value		0.567 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.015		Power-50%		0.083	P-value		0.207	Power	0.000		Power-50%		0.051	P-value		0.697	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	1403.33	809.83	6	2061.67	806.92	0.5	-	0.577	6	1289.67	785.67	6	1568.84	732.81	0.5	-	0.800	6	6.00	6.00	6	0.00	0.00	1.4	-		0.363
31252C/31248	2	6	240.84	237.84	6	2.17	1.51	1.4	+	0.250	6	0.34	0.33	6	0.67	0.67	1.1	-	0.666	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31252	2	6	240.84	237.84	6	69.83	58.65	1.1	+	0.741	6	0.34	0.33	6	0.00	0.00	1.4	+	0.361	6	0.00	0.00	6	0.00	0.00		-	o	1.000
99826C/33141	2	6	52.34	27.53	6	0.34	0.33	0.7	+	0.143	6	1.67	1.67	6	0.33	0.33	1.2	-	0.918	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			484.34	328.26		533.50	216.85		·			323.00	197.00		392.46	183.45		+			1.50	1.50		0.00	0.00		+	
Fisher's		Power	0.126		Power-50%		0.125	P-value		0.147 y	Power	0.021		Power-50%		0.102	P-value		0.557 y	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.195		Power-50%		0.186	P-value		0.377	Power	0.107		Power-50%		0.307	P-value		0.528	Power	---		Power-50%		---	P-value		0.232
30196C/30196	3	5	872.40	362.90	6	2132.84	652.73	0.4	-	0.146	5	859.20	364.62	6	1719.33	440.04	0.3	-	0.177	5	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31248	3	6	35.67	15.36	5	209.00	193.19	1.0	-	0.494	6	5.33	2.58	5	0.00	0.00	0.8	+	0.093	6	0.00	0.00	5	0.00	0.00		-	o	1.000
31252C/31252	3	6	35.67	15.36	6	274.17	228.43	1.0	-	0.809	6	5.33	2.58	6	1.00	0.68	0.6	+	0.135	6	0.00	0.00	6	0.00	0.00		-	o	1.000
99826C/33141	3	1	0.00	--	6	94.00	76.03		-	---	1	0.00	--	6	56.00	51.67		-	---	1	0.00	--	6	0.00	0.00		-	o	---
Habitat Means			235.94	131.20		677.50	287.59		-			217.47	123.26		444.08	123.10		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.103		Power-50%		0.400	P-value		0.132	Power	---		Power-50%		---	P-value		0.069 y	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		0.434	P-value		0.057	Power	0.094		Power-50%		0.171	P-value		0.409	Power	---		Power-50%		---	P-value		0.500

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

		Bangia sp. (AE)								Gigartinaceae Group (P) (a)								Total Palmaria (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.01	0.00	1.0	-	0.205	6	0.50	0.34	6	238.67	238.67	1.4	-	0.900	6	0.00	0.00	6	0.33	0.33	1.4	-		0.363
31252C/31248	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.67	0.67	6	0.00	0.00	1.4	-		0.363
Habitat Means			0.00	0.00		0.00	0.00		-			0.13	0.09		59.67	59.67		-			0.17	0.17		0.08	0.08		-	
Fisher's		Power	0.002		Power-50%		---	P-value		0.365	Power	0.000		Power-50%		0.001	P-value		0.675	Power	---		Power-50%		---	P-value		0.582 y
Stouffer's		Power	0.000		Power-50%		---	P-value		0.153	Power	0.000		Power-50%		0.054	P-value		0.460	Power	---		Power-50%		---	P-value		0.253
30196C/30196	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	832.17	718.20	6	1416.50	747.44	0.7	-	0.585	6	448.83	448.83	6	72.17	48.08	1.2	-		0.644
31252C/31248	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.17	0.17	6	0.67	0.67	1.2	-	0.825	6	0.17	0.17	6	0.00	0.00	1.4	-		0.363
31252C/31252	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.17	0.17	6	0.00	0.00	1.4	+	0.358	6	0.17	0.17	6	0.00	0.00	1.4	-		0.363
99826C/33141	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	1.50	1.50	6	0.33	0.33	1.2	+	0.923	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			208.50	180.01		354.38	187.11		+			112.29	112.29		18.04	12.02		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.016		Power-50%		0.116	P-value		0.565 y	Power	0.044		Power-50%		0.044	P-value		0.233
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.084		Power-50%		0.296	P-value		0.582	Power	0.126		Power-50%		---	P-value		0.131
30196C/30196	3	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	9.20	8.46	6	418.17	203.74	0.7	-	0.166	5	836.60	367.83	6	1142.33	442.91	0.4	-		0.618
31252C/31248	3	6	0.00	0.00	5	0.00	0.00		-	o 1.000	6	4.50	2.80	5	0.00	0.00	1.0	+	0.169	6	0.83	0.54	5	0.00	0.00	1.0	+		0.185
31252C/31252	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	4.50	2.80	6	0.17	0.17	0.9	+	0.208	6	0.83	0.54	6	0.00	0.00	0.9	+		0.185
99826C/33141	3	1	0.00	--	6	0.00	0.00		-	o ---	1	0.00	--	6	3.17	3.17		-	---	1	0.00	--	6	49.50	49.10		-	---	
Habitat Means			0.00	0.00		0.00	0.00		o			4.55	4.69		105.38	51.77		+			209.57	122.97		297.96	123.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.032		Power-50%		0.206	P-value		0.141 y	Power	0.033		Power-50%		0.033	P-value		0.114 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.006		Power-50%		0.308	P-value		0.510	Power	0.106		Power-50%		0.398	P-value		0.245

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.120. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Palmaria spp. (A) N	C	SE	N	O	SE	CV	D	P	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV	D	P	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.33	0.33	1.4	-		0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.67	0.67	6	0.00	0.00	1.4	+		0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.17	0.17		0.08	0.08		-				0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.582	y	Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.253		Power	---		Power-50%		---	P-value	
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	422.00	422.00	6	72.17	48.08	1.2	-		0.641	6	26.83	26.83	6	0.00	0.00	1.4	+	0.363
31252C/31248	2	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.08	0.08		0.00	0.00		+			105.50	105.50		18.04	12.02		+				6.71	6.71		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.295	Power	0.001		Power-50%		---	P-value		0.599		Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.227	Power	0.000		Power-50%		---	P-value		0.354		Power	---		Power-50%		---	P-value	
30196C/30196	3	5	0.00	0.00	6	4.33	4.33	1.6	-	0.363	5	577.20	324.24	6	1041.00	432.97	0.5	-		0.430	5	259.40	225.64	6	97.00	36.89	0.8	+	0.722
31252C/31248	3	6	0.83	0.54	5	0.00	0.00	1.0	-	0.185	6	0.00	0.00	5	0.00	0.00	-	o		1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.83	0.54	6	0.00	0.00	0.9	-	0.185	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	49.50	49.10	-	-		---	1	0.00	--	6	0.00	0.00	-	o	---
Habitat Means			0.42	0.36		1.08	1.08		+			144.30	108.08		272.63	120.52		-				64.85	75.21		24.25	9.22		-	
Fisher's		Power	0.197		Power-50%		0.269	P-value		0.128	y Power	0.000		Power-50%		0.003	P-value		0.441		Power	0.004		Power-50%		0.004	P-value		0.568
Stouffer's		Power	0.144		Power-50%		0.028	P-value		0.359	Power	0.000		Power-50%		0.012	P-value		0.262		Power	0.001		Power-50%		0.028	P-value		0.387

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

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	52.33	52.33	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.84	0.66	6	0.00	0.00	1.1	+	0.259
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		13.08	13.08		-			0.00	0.00		0.00	0.00		o				0.21	0.16		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698		Power	0.004		Power-50%		0.004	P-value		0.246
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500		Power	0.007		Power-50%		0.017	P-value		0.164
30196C/30196	2	6	2.67	2.67	6	80.17	80.17	1.4	-	0.687	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	78.17	48.83	6	360.67	198.87	0.7	-	0.494
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	240.17	237.57	6	1.50	1.50	1.4	+	0.233
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	240.17	237.57	6	41.83	31.03	1.2	+	0.968
99826C/33141	2	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	50.67	26.12	6	0.00	0.00	0.7	+	0.110
Habitat Means			0.71	0.71		20.04	20.04		+			0.00	0.00		0.00	0.00		o				152.29	137.52		101.00	57.85		+	
Fisher's		Power	0.000		Power-50%		---	P-value		0.534	y Power	---		Power-50%		---	P-value		0.698		Power	0.061		Power-50%		0.061	P-value		0.146
Stouffer's		Power	0.000		Power-50%		---	P-value		0.602	Power	---		Power-50%		---	P-value		0.500		Power	0.099		Power-50%		0.291	P-value		0.445
30196C/30196	3	5	13.40	9.90	6	122.67	64.70	0.7	-	0.338	5	0.00	0.00	6	36.17	36.17	1.6			0.363	5	1.20	0.74	6	269.00	178.49	1.0	-	0.094
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o		1.000	6	28.33	15.15	5	208.00	192.95	1.0	-	0.987
31252C/31252	3	6	0.00	0.00	6	0.83	0.54	0.9	-	0.185	6	0.00	0.00	6	0.00	0.00	-	o		1.000	6	28.33	15.15	6	119.67	94.19	0.9	-	0.521
99826C/33141	3	1	0.00	--	6	3.34	2.78	-	-	---	1	0.00	--	6	0.00	0.00	-	o		---	1	0.00	--	6	1.50	0.96	-	-	---
Habitat Means			3.35	3.30		31.71	17.00		-			0.00	0.00		9.04	9.04		-				14.47	10.35		149.54	116.65		-	
Fisher's		Power	0.027		Power-50%		0.005	P-value		0.138	Power	---		Power-50%		---	P-value		0.403		Power	0.129		Power-50%		0.129	P-value		0.116
Stouffer's		Power	0.056		Power-50%		0.028	P-value		0.106	Power	---		Power-50%		---	P-value		0.231		Power	---		Power-50%		---	P-value		0.056

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

Table C-3.120. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Dumontia contorta (AE) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.232
30196C/30196	2	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	67.33	40.28	6	208.00	198.35	1.0	-	0.927
31252C/31248	2	6	0.33	0.33	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.33	0.33	6	0.50	0.50	1.0	-	0.787	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	9.67	7.18	1.1	-	0.236
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.21	0.21		0.13	0.13		+			0.00	0.00		0.00	0.00		o			16.83	10.07		54.42	51.38		-	
Fisher's		Power	---		Power-50%		---	P-value		0.325	Power	---		Power-50%		---	P-value		0.698	Power	0.001		Power-50%		0.001	P-value		0.473
Stouffer's		Power	---		Power-50%		---	P-value		0.144	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.024	P-value		0.333
30196C/30196	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.60	0.60	6	14.83	14.63	1.5	-	0.807
31252C/31248	3	6	1.33	1.33	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	1.33	1.33	6	9.33	9.33	1.3	-	0.913	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
Habitat Means			0.67	0.89		2.33	2.33		-			0.00	0.00		0.00	0.00		o			0.25	0.20		3.71	3.66		-	
Fisher's		Power	---		Power-50%		---	P-value		0.421 y	Power	---		Power-50%		---	P-value		0.655	Power	0.000		Power-50%		0.000	P-value		0.598
Stouffer's		Power	---		Power-50%		---	P-value		0.349	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.002	P-value		0.422

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

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.65	6	0.00	0.00	1.1	-	0.259	6	0.83	0.65	6	0.00	0.00	1.1	-	0.259
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.21	0.16		0.00	0.00		-			0.21	0.16		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	0.000		Power-50%		0.000	P-value		0.409	Power	0.000		Power-50%		0.000	P-value		0.409
Stouffer's		Power	---		Power-50%		---	P-value		0.474	Power	0.000		Power-50%		0.016	P-value		0.181	Power	0.000		Power-50%		0.014	P-value		0.181
30196C/30196	2	6	0.00	0.00	6	5.00	5.00	1.4	-	0.363	6	0.00	0.00	6	60.17	60.17	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	2.17	1.64	6	1.50	1.50	0.9	+	0.771	6	5.17	5.17	6	0.00	0.00	1.4	-	0.363	6	5.17	5.17	6	0.00	0.00	1.4	+	0.363
31252C/31252	2	6	2.17	1.64	6	0.17	0.17	2.0	-	0.465	6	5.17	5.17	6	31.50	31.50	1.2	-	0.927	6	5.17	5.17	6	31.50	31.50	1.2	-	0.927
99826C/33141	2	6	49.17	25.18	6	0.00	0.00	0.7	+	0.108	6	1.50	1.12	6	0.00	0.00	1.1	+	0.237	6	1.50	1.12	6	0.00	0.00	1.1	+	0.237
Habitat Means			13.38	7.12		1.67	1.67		+			2.96	2.86		22.92	22.92		+			2.96	2.86		7.88	7.88		+	
Fisher's		Power	0.216		Power-50%		0.360	P-value		0.199	Power	0.024		Power-50%		0.052	P-value		0.316 y	Power	0.045		Power-50%		0.045	P-value		0.244 y
Stouffer's		Power	0.212		Power-50%		0.015	P-value		0.587	Power	0.041		Power-50%		0.000	P-value		0.600	Power	0.114		Power-50%		0.000	P-value		0.316
30196C/30196	3	5	0.00	0.00	6	0.33	0.33	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	10.17	3.06	5	11.00	9.57	0.6	-	0.930	6	0.00	0.00	5	0.40	0.40	1.3	-	0.374	6	0.00	0.00	5	0.40	0.40	1.3	-	0.374
31252C/31252	3	6	10.17	3.06	6	22.00	19.61	0.9	-	0.868	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
Habitat Means			5.08	2.04		8.33	7.38		-			0.00	0.00		0.10	0.10		-			0.00	0.00		0.10	0.10		-	
Fisher's		Power	0.009		Power-50%		0.198	P-value		0.358	Power	---		Power-50%		---	P-value		0.409	Power	---		Power-50%		---	P-value		0.409
Stouffer's		Power	0.020		Power-50%		0.040	P-value		0.202	Power	---		Power-50%		---	P-value		0.339	Power	---		Power-50%		---	P-value		0.339

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

Table C-3.120. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	60.17	60.17	1.4	-	0.363	6	0.00	0.00	6	0.50	0.50	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		15.04	15.04		-			0.00	0.00		0.13	0.13		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.60	0.60	6	0.33	0.33	1.0	-	0.694	5	0.00	0.00	6	57.17	57.17	1.6	-	0.363
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.15	0.20		0.08	0.08		+			0.00	0.00		14.29	14.29		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	---		Power-50%		---	P-value		0.558	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.375	Power	---		Power-50%		---	P-value		0.231

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

Site Pair	MVD	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Unidentified Red Fine Filaments N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.04	0.04		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.348	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	10.67	10.67	6	87.00	68.76	1.0	-	0.096	6	2.83	2.83	6	67.00	59.50	1.2	-	0.251	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363
31252C/31248	2	6	232.50	232.50	6	0.00	0.00	1.4	+	0.363	6	0.34	0.34	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	232.50	232.50	6	0.00	0.00	1.4	+	0.363	6	0.34	0.34	6	28.00	28.00	1.4	-	0.805	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.01	0.00	0.7	-	0.102	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			118.92	118.92		21.75	17.19		+			0.88	0.88		23.75	21.88		-			0.00	0.00		0.08	0.08		-	
Fisher's		Power	0.001		Power-50%		---	P-value		0.404x	Power	0.054		Power-50%		---	P-value		0.137	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.005		Power-50%		---	P-value		0.723	Power	0.112		Power-50%		---	P-value		0.239	Power	---		Power-50%		---	P-value		0.232
30196C/30196	3	5	0.00	0.00	6	196.33	179.87	1.4	-	0.325	5	0.00	0.00	6	46.34	37.85	1.3	-	0.275	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	16.83	15.11	5	196.60	195.10	1.2	-	0.780	6	2.00	1.29	5	1.00	0.63	0.7	+	0.531	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	16.83	15.11	6	88.33	86.94	1.2	-	0.644	6	2.00	1.29	6	153.34	134.45	1.2	-	0.150	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	0.00	--	6	1.50	0.96	-	-	---	1	0.00	--	6	3.34	3.14	-	-	---	1	0.00	--	6	0.00	0.00	-	o	---
Habitat Means			8.42	10.07		120.69	115.72		-			1.00	0.86		51.00	44.02		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.076		Power-50%		0.027	P-value		0.254	Power	0.234		Power-50%		0.101	P-value		0.135	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.201		Power-50%		0.001	P-value		0.138	Power	0.297		Power-50%		0.008	P-value		0.135	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.120. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P	Erythrotrichia sp. (AE) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	2.50	2.50	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.63	0.63		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.474
30196C/30196	3	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	15.00	10.05	1.0	-	0.196	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
99826C/33141	3	1	0.00	--	6	0.00	0.00	-	o	---	1	0.00	--	6	2.67	2.67	-	-	---	1	0.00	--	6	0.00	0.00	-	o	---
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		4.42	3.18		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.655	Power	0.001		Power-50%		---	P-value		0.284	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.148	Power	---		Power-50%		---	P-value		0.373

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

Site Pair	MVD	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Tiffaniella snyderae (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.04	0.04		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.348	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	2.83	2.83	6	64.17	59.87	1.3	-	0.486	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	32.67	32.27	6	65.17	36.41	0.7	-	0.519
31252C/31248	2	6	0.33	0.33	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.33	0.33	6	28.00	28.00	1.4	-	0.804	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.01	0.00	0.6	-	0.076	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.87	0.87		23.04	21.97		-			0.00	0.00		0.00	0.00					8.17	8.07		16.29	9.10		-	
Fisher's		Power	0.079		Power-50%		---	P-value		0.170	Power	---		Power-50%		---	P-value		0.295	Power	0.000		Power-50%		0.000	P-value		0.552
Stouffer's		Power	0.134		Power-50%		---	P-value		0.361	Power	---		Power-50%		---	P-value		0.227	Power	0.000		Power-50%		0.002	P-value		0.302
30196C/30196	3	5	0.00	0.00	6	31.34	28.44	1.4	-	0.321	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	12.00	8.00	6	98.17	70.53	1.0	-	0.041
31252C/31248	3	6	2.00	1.29	5	1.00	0.63	0.7	+	0.531	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31252	3	6	2.00	1.29	6	153.33	134.45	1.2	-	0.150	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363
99826C/33141	3	1	0.00	--	6	0.67	0.49	-	-	---	1	0.00	--	6	0.00	0.00	-	-	---	1	0.00	--	6	33.17	22.32	-	-	---
Habitat Means			1.00	0.86		46.58	41.00		-			0.00	0.00		0.00	0.00		o			3.00	2.67		32.88	23.25		-	
Fisher's		Power	0.155		Power-50%		0.109	P-value		0.149	Power	---		Power-50%		---	P-value		0.655 y	Power	---		Power-50%		---	P-value		0.050
Stouffer's		Power	0.260		Power-50%		0.008	P-value		0.153	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.024

(a) Genera not separated.

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

120. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

	Total Halosaccion (A)								Halosaccion glandiforme (A)																
MTR	N	C	SE	N	C	SE	CV	D	P	N	C	SE	N	C	SE	CV	D	P	N	C	SE	N	C	SE	CV	D	P
30196C/30196 1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31248 1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252 1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141 1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means		0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196 2	6	32.67	32.27	6	65.17	36.41	0.7	-	0.519	6	32.67	32.27	6	65.17	36.41	0.7	-	0.519									
31252C/31248 2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252 2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141 2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means		8.17	8.07		16.29	9.10		-			8.17	8.07		16.29	9.10		-									
Fisher's	Power	0.000		Power-50%		0.000	P-value		0.552	Power	0.000		Power-50%		0.000	P-value		0.552	Power	---		Power-50%		---	P-value		
Stouffer's	Power	0.000		Power-50%		0.000	P-value		0.302	Power	0.000		Power-50%		0.001	P-value		0.302	Power	---		Power-50%		---	P-value		
30196C/30196 3	5	12.00	8.00	6	98.17	70.53	1.0	-	0.041	5	12.00	8.00	6	98.17	70.53	1.0	-	0.041									
31252C/31248 3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
31252C/31252 3	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363									
99826C/33141 3	1	0.00	--	6	33.17	22.32	-	-	---	1	0.00	--	6	33.17	22.32	-	-	---									
Habitat Means		3.00	2.67		32.88	23.25		-			3.00	2.67		32.88	23.25		-									
Fisher's	Power	---		Power-50%		---	P-value		0.050	Power	---		Power-50%		---	P-value		0.050	Power	---		Power-50%		---	P-value		
Stouffer's	Power	---		Power-50%		0.008	P-value		0.024	Power	---		Power-50%		---	P-value		0.024	Power	--		Power-50%		---	P-value		

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

Table C-3.121. Algal Biomass. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)							Total Algae							Perennials (P)						
Site Pair	MVD	N	C	SE	N	O	SE	CV D P	N	C	SE	N	O	SE	CV D P	N	C	SE	N	O	SE	CV D P
30196C/30196 1	1	6	1.67	0.80	6	2.17	0.40	0.3 - 0.590	6	412.50	353.83	6	997.51	781.11	0.9 - 0.511	6	411.67	354.01	6	997.34	781.16	0.9 - 0.510
31252C/31248 1	1	6	1.50	0.76	6	1.00	0.26	0.5 + 0.549	6	769.01	509.97	6	365.50	212.63	0.7 + 0.482	6	769.00	509.97	6	365.33	212.69	0.7 + 0.482
31252C/31252 1	1	6	1.50	0.76	6	0.33	0.21	0.6 + 0.172	6	769.01	509.97	6	0.00	0.00	0.9 - 0.039	6	769.00	509.97	6	0.00	0.00	0.9 + 0.039
99826C/33141 1	1	6	0.00	0.00	6	1.33	0.61	0.7 - 0.082	6	0.00	0.00	6	510.64	269.72	0.7 - 0.117	6	0.00	0.00	6	510.30	269.69	0.7 - 0.117
Habitat Means			1.17	0.58		1.21	0.37	-		487.63	343.44		468.41	315.87	-		487.42	343.49		468.24	315.88	+
Fisher's	Power		0.252		Power-50%		0.467	P-value 0.291	Power	0.006		Power-50%		0.033	P-value 0.178	Power	0.010		Power-50%		0.010	P-value 0.178
Stouffer's	Power		0.079		Power-50%		0.622	P-value 0.582	Power	0.002		Power-50%		0.175	P-value 0.337	Power	0.003		Power-50%		0.160	P-value 0.337
30196C/30196 2	2	6	4.17	1.45	6	6.33	1.94	0.3 - 0.392	6	1803.34	516.03	6	1770.18	1004.12	0.4 + 0.977	6	1245.17	358.05	6	964.09	490.25	0.4 - 0.653
31252C/31248 2	2	6	2.83	0.65	6	2.50	0.72	0.3 + 0.739	6	2959.67	1322.32	6	423.01	219.41	0.6 + 0.137	6	2950.84	1317.99	6	406.59	220.93	0.6 + 0.140
31252C/31252 2	2	6	2.83	0.65	6	1.17	0.75	0.4 + 0.125	6	2959.67	1322.32	6	1.34	0.99	0.6 + 0.001	6	2950.84	1317.99	6	0.67	0.49	0.6 + 0.000
99826C/33141 2	2	6	1.00	0.45	6	1.00	0.52	0.5 o 1.000	6	1084.84	432.49	6	540.17	358.24	0.5 + 0.355	6	1084.83	432.49	6	460.67	343.13	0.5 + 0.285
Habitat Means			2.71	0.80		2.75	0.98	+		2201.88	898.29		683.67	395.69	+		2057.92	856.63		458.00	263.70	-
Fisher's	Power		0.184		Power-50%		0.983	P-value 0.312 y	Power	---		Power-50%		---	P-value 0.001	Power	---		Power-50%		---	P-value 0.000
Stouffer's	Power		0.078		Power-50%		0.932	P-value 0.494	Power	---		Power-50%		---	P-value 0.021	Power	---		Power-50%		---	P-value 0.008
30196C/30196 3	3	6	5.67	0.67	6	8.67	1.76	0.2 - 0.143	6	1790.34	593.31	6	2671.67	573.15	0.3 - 0.311	6	1403.01	674.90	6	779.33	306.07	0.5 + 0.420
31252C/31248 3	3	6	2.00	0.45	6	2.83	1.01	0.3 - 0.469	6	187.67	128.88	6	361.85	149.91	0.5 - 0.399	6	177.17	129.26	6	352.33	149.83	0.5 - 0.397
31252C/31252 3	3	6	2.00	0.45	6	4.17	1.74	0.4 - 0.276	6	187.67	128.88	6	348.02	186.67	0.6 - 0.496	6	177.17	129.26	6	234.84	126.57	0.6 - 0.756
99826C/33141 3	3	4	3.25	0.48	6	1.50	0.96	0.4 + 0.201	4	1190.26	571.26	6	419.34	278.02	0.5 + 0.213	4	1022.75	621.14	6	373.33	241.21	0.6 + 0.292
Habitat Means			3.23	0.51		4.29	1.37	-		838.98	355.58		950.22	296.94	-		695.02	388.64		434.96	205.92	+
Fisher's	Power		0.185		Power-50%		1.000	P-value 0.136	Power	0.077		Power-50%		0.360	P-value 0.268	Power	0.030		Power-50%		0.030	P-value 0.399
Stouffer's	Power		---		Power-50%		0.996	P-value 0.035	Power	---		Power-50%		---	P-value 0.086	Power	0.026		Power-50%		0.258	P-value 0.413

(a) ISKB 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 test
z Only one site pair.

		Annuals (A)							Ephemerals (AE)							Perennials (P)						
Site Pair	MVD	N	C	SE	N	O	SE	CV D P	N	C	SE	N	O	SE	CV D P	N	C	SE	N	O	SE	CV D P
30196C/30196 1	1	6	0.84	0.83	6	0.17	0.17	1.4 + 0.951	6	0.00	0.00	6	0.00	0.00	1.4 + 0.363							
31252C/31248 1	1	6	0.01	0.00	6	0.17	0.17	1.4 - 0.951	6	0.00	0.00	6	0.00	0.00	1.4 + 0.363							
31252C/31252 1	1	6	0.01	0.00	6	0.00	0.00	1.0 + 0.203	6	0.00	0.00	6	0.00	0.00	- o 1.000							
99826C/33141 1	1	6	0.00	0.00	6	0.34	0.33	1.4 - 0.361	6	0.00	0.00	6	0.00	0.00	- o 1.000							
Habitat Means			0.21	0.21		0.17	0.17	+		0.00	0.00		0.00	0.00	+							
Fisher's	Power		0.002		Power-50%		0.032	P-value 0.458	Power	---		Power-50%		---	P-value 0.376	Power	---		Power-50%		---	P-value	
Stouffer's	Power		0.004		Power-50%		0.463	P-value 0.342	Power	---		Power-50%		---	P-value 0.493	Power	---		Power-50%		---	P-value	
30196C/30196 2	2	6	558.17	412.10	6	806.09	524.47	0.7 - 0.718	6	1.67	1.67	6	3.42	3.42	1.1 - 0.655							
31252C/31248 2	2	6	8.84	6.68	6	16.42	15.72	1.0 - 0.666	6	0.50	0.50	6	0.00	0.00	1.4 - 0.625							
31252C/31252 2	2	6	8.84	6.68	6	0.67	0.49	1.0 - 0.216	6	0.50	0.50	6	0.00	0.00	1.4 - 0.363							
99826C/33141 2	2	6	0.00	0.00	6	79.50	79.50	1.4 - 0.354	6	0.00	0.00	6	0.00	0.00	- o 1.000							
Habitat Means			143.96	106.36		225.67	155.05	-		0.67	0.67		0.86	0.86	+							
Fisher's	Power		0.009		Power-50%		0.163	P-value 0.440	Power	0.000		Power-50%		---	P-value 0.442 y	Power	---		Power-50%		---	P-value	
Stouffer's	Power		0.032		Power-50%		0.279	P-value 0.453	Power	0.005		Power-50%		---	P-value 0.424	Power	---		Power-50%		---	P-value	
30196C/30196 3	3	6	387.34	175.75	6	1892.34	410.40	0.3 - 0.007	6	22.17	19.50	6	72.34	66.67	1.0 - 0.487							
31252C/31248 3	3	6	10.50	8.95	6	9.51	6.03	0.8 + 0.929	6	0.00	0.00	6	1.01	0.68	1.0 - 0.202							
31252C/31252 3	3	6	10.50	8.95	6	113.18	75.60	0.9 - 0.278	6	0.00	0.00	6	3.18	3.17	1.4 - 0.362							
99826C/33141 3	3	4	167.51	101.59	6	46.01	44.81	0.6 + 0.250	4	126.26	110.21	6	42.84	41.64	0.8 + 0.435							
Habitat Means			143.96	73.81		515.26	134.21	-		37.11	32.43		29.84	28.04	-							
Fisher's	Power		---		Power-50%		---	P-value 0.033	Power	0.041		Power-50%		0.023	P-value 0.184 y	Power	---		Power-50%		---	P-value	
Stouffer's	Power		-		Power-50%		0.117	P-value 0.008	Power	---		Power-50%		---	P-value 0.077	Power	---		Power-50%		---	P-value	

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

Table C-3.122. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value			0.698	Power	---		Power-50%		---	P-value			0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value			0.500
30196C/30196	2	6	0.00	0.00	6	14.84	11.58	1.1	-	0.256	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31248	2	6	0.50	0.50	6	0.17	0.17	1.1	-	0.546	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31252	2	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.25	0.25		3.75	2.94		+			0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.466 y	Power	---		Power-50%		---	P-value			0.698	Power	---		Power-50%		---	P-value			0.698
Stouffer's		Power	0.000		Power-50%		---	P-value		0.621	Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value			0.500
30196C/30196	3	6	19.83	19.83	6	68.67	67.27	1.1	-	0.502	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31248	3	6	0.00	0.00	6	0.01	0.00	0.7	-	0.102	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31252	3	6	0.00	0.00	6	12.67	9.40	1.0	-	0.235	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
99826C/33141	3	4	126.25	110.21	6	42.84	41.65	0.8	+	0.435	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			36.52	32.51		31.05	29.58		-			0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o	
Fisher's		Power	---		Power-50%		---	P-value		0.096 y	Power	---		Power-50%		---	P-value			0.698	Power	---		Power-50%		---	P-value			0.698
Stouffer's		Power	---		Power-50%		0.001	P-value		0.047	Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value			0.500

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			0.698	Power	---		Power-50%		---	P-value			0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value			0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			0.698	Power	---		Power-50%		---	P-value			0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value			0.500
30196C/30196	3	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31248	3	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000	6	0.00	0.00	6	0.00	0.00		-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	0.00	0.00	6	0.00	0.00		-	o	1.000	4	0.00	0.00	6	0.00	0.00		-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00			o			0.00	0.00		0.00	0.00			o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			0.698	Power	---		Power-50%		---	P-value			0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			0.500	Power	---		Power-50%		---	P-value			0.500

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

Table C-3.122. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens								Unidentified Green Fine Filaments								Acrosiphonia sp. (A)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	14.84	11.58	1.1	-	0.256	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.17	0.17	1.4	-	0.358	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		3.75	2.94	-				0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		---	P-value		0.243	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.089	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	19.83	19.83	6	68.67	67.27	1.1	-	0.502	6	0.00	0.00	6	67.50	67.50	1.4	-	0.363	6	0.00	0.00	6	0.83	0.83	1.4	-	0.363
31252C/31248	3	6	0.00	0.00	6	0.01	0.00	0.7	-	0.102	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	12.67	9.40	1.0	-	0.235	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	13.50	13.50	6	0.00	0.00	1.1	-	0.319	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	1.7	-	0.363
Habitat Means			8.33	8.33		20.34	19.17	-				0.00	0.00		16.88	16.88	-				0.00	0.00		0.21	0.21	-		
Fisher's		Power	0.038		Power-50%		0.000	P-value		0.101	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.295
Stouffer's		Power	---		Power-50%		0.000	P-value		0.049	Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.212

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A)								Chaetomorpha/Rhizoclonium spp. (A) (b)								Cladophora sp. (AE)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.232
30196C/30196	2	6	0.00	0.00	6	13.84	11.77	1.2	-	0.293	6	0.00	0.00	6	13.84	11.77	1.2	-	0.293	6	0.00	0.00	6	1.00	1.00	1.4	-	0.362
31252C/31248	2	6	0.00	0.00	6	0.17	0.17	1.4	-	0.358	6	0.00	0.00	6	0.17	0.17	1.4	-	0.358	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		3.50	2.98	-				0.00	0.00		3.50	2.98	-				0.00	0.00		0.25	0.25	-		
Fisher's		Power	0.001		Power-50%		---	P-value		0.261	Power	0.000		Power-50%		---	P-value		0.261	Power	0.000		Power-50%		0.000	P-value		0.294
Stouffer's		Power	0.001		Power-50%		---	P-value		0.101	Power	0.000		Power-50%		---	P-value		0.101	Power	0.000		Power-50%		---	P-value		0.123
30196C/30196	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	19.83	19.83	6	0.34	0.33	1.4	-	0.976
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.01	0.00	0.6	-	0.076
31252C/31252	3	6	0.00	0.00	6	12.67	9.39	1.0	-	0.235	6	0.00	0.00	6	12.67	9.39	1.0	-	0.235	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00	1.7	-	0.363	4	13.50	13.50	6	0.00	0.00	1.1	-	0.391
Habitat Means			0.00	0.00		3.17	2.35	-				0.00	0.00		3.17	2.35	-				8.33	8.33		0.09	0.08	-		
Fisher's		Power	0.069		Power-50%		---	P-value		0.131	Power	0.078		Power-50%		---	P-value		0.131	Power	0.001		Power-50%		0.001	P-value		0.163 y
Stouffer's		Power	0.238		Power-50%		---	P-value		0.180	Power	0.237		Power-50%		---	P-value		0.180	Power	0.003		Power-50%		0.000	P-value		0.143

(b) Chaetomorpha melagonium not included.

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

Table C-3.122. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.25	0.25		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.295
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.227
30196C/30196	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	112.75	96.80	6	42.83	41.64	0.8	+	0.472
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			28.19	24.20		10.71	10.41		+	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	0.003		Power-50%		0.003	P-value		0.532
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.000	P-value		0.479

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

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31248	2	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363									
31252C/31252	2	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363									
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.25	0.25		0.00	0.00		+			0.25	0.25		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		
30196C/30196	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	3	4	112.75	96.80	6	42.83	41.64	0.8	+	0.472	4	112.75	96.80	6	42.83	41.64	0.8	+	0.472									
Habitat Means			28.19	24.20		10.71	10.41		+			28.19	24.20		10.71	10.41		+										
Fisher's		Power	0.002		Power-50%		0.004	P-value		0.532	Power	0.004		Power-50%		0.004	P-value		0.532	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.479	Power	0.001		Power-50%		0.000	P-value		0.479	Power	---		Power-50%		---	P-value		

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.123. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Unidentified Bladed Browns							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	112.50	72.41	6	985.67	773.54	1.0	-	0.112	6	112.50	72.41	6	985.67	773.54	1.0	-	0.112	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	768.84	509.82	6	365.33	212.69	0.7	+	0.482	6	768.83	509.82	6	365.33	212.69	0.7	+	0.482	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	768.84	509.82	6	0.00	0.00	0.9	-	0.039	6	768.83	509.82	6	0.00	0.00	0.9	+	0.039	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	503.13	269.20	0.8	+	0.121	6	0.00	0.00	6	503.13	269.20	0.8	-	0.121	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			412.54	273.02		463.53	313.86		+			412.54	273.01		463.53	313.86		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.003		Power-50%		0.036	P-value		0.203 y	Power	0.005		Power-50%		0.021	P-value		0.203 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.185	P-value		0.628	Power	0.001		Power-50%		0.173	P-value		0.628	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	1209.00	369.47	6	132.92	123.25	0.4	+	0.020	6	1209.00	369.47	6	130.17	123.78	0.4	+	0.020	6	0.17	0.17	6	0.00	0.00	1.4	-	0.363
31252C/31248	2	6	2937.50	1313.86	6	272.92	188.01	0.6	+	0.281	6	2937.50	1313.86	6	272.92	188.01	0.6	+	0.281	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	2937.50	1313.86	6	0.33	0.21	0.6	+	0.002	6	2937.50	1313.86	6	0.33	0.21	0.6	+	0.002	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	988.17	441.54	6	361.50	349.64	0.6	-	0.292	6	988.17	441.54	6	361.50	349.64	0.6	+	0.292	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2018.04	859.68		191.92	165.28		+			2018.04	859.68		191.23	165.41		+			0.04	0.04		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		0.162	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.232
30196C/30196	3	6	1110.00	377.57	6	188.34	87.33	0.4	+	0.195	6	1110.00	377.57	6	176.17	90.92	0.4	+	0.158	6	2.33	2.33	6	0.00	0.00	1.4	-	0.363
31252C/31248	3	6	167.83	131.36	6	352.67	150.08	0.5	-	0.376	6	167.83	131.36	6	351.67	149.81	0.5	-	0.378	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	167.83	131.36	6	239.51	129.58	0.6	-	0.706	6	167.83	131.36	6	233.33	125.80	0.6	-	0.726	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	700.50	652.32	6	370.17	239.77	0.8	+	0.595	4	693.75	654.68	6	370.17	239.77	0.8	+	0.603	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			536.54	323.15		287.67	151.69		+			534.85	323.74		282.83	151.57		+			0.58	0.58		0.00	0.00		-	
Fisher's		Power	0.025		Power-50%		0.203	P-value		0.398	Power	0.024		Power-50%		0.144	P-value		0.360	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.021		Power-50%		0.169	P-value		0.296	Power	0.023		Power-50%		0.179	P-value		0.261	Power	---		Power-50%		---	P-value		0.232

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

		Alaria sp. (A)								Fucus gardneri (P)								Laminaria sp. (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	112.50	72.41	6	985.67	773.54	1.0	-	0.112	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	768.83	509.82	6	365.33	212.69	0.7	+	0.482	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	768.83	509.82	6	0.00	0.00	0.9	+	0.039	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	503.13	269.20	0.8	-	0.121	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			412.54	273.01		463.53	313.86		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.004		Power-50%		0.027	P-value		0.203 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.164	P-value		0.628	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	6.33	6.33	6	0.00	0.00	1.4	+	0.363	6	1202.50	365.73	6	130.17	123.78	0.4	+	0.020	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2937.50	1313.86	6	272.92	188.01	0.6	+	0.281	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2937.50	1313.86	6	0.33	0.21	0.6	+	0.002	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	988.17	441.54	6	361.50	349.64	0.6	+	0.292	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.58	1.58		0.00	0.00		+			2016.42	858.75		191.23	165.41		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	123.33	123.33	6	71.00	58.46	1.0	+	0.709	6	983.83	416.53	6	105.17	85.28	0.6	+	0.210	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	167.83	131.36	6	351.67	149.81	0.5	-	0.378	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	167.83	131.36	6	233.33	125.80	0.6	-	0.726	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	693.75	654.68	6	370.17	239.77	0.8	+	0.603	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			30.83	30.83		17.75	14.62		-			503.31	333.48		265.08	150.16		+			0.13	0.13		0.00	0.00		+	
Fisher's		Power	0.000		Power-50%		---	P-value		0.621	Power	0.035		Power-50%		0.159	P-value		0.301	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.000		Power-50%		---	P-value		0.382	Power	0.031		Power-50%		0.206	P-value		0.215	Power	---		Power-50%		---	P-value		0.232

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

Table C-3.123. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Chordaria flagelliformis (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	3.00	3.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	3.00	3.00	1.4	-	0.363
99826C/33141	3	4	0.75	0.75	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.75	0.75	6	0.00	0.00	1.1	+	0.391
Habitat Means			0.19	0.19		0.75	0.75		-			0.00	0.00		0.00	0.00		o			0.19	0.19		0.75	0.75		-	
Fisher's		Power	---		Power-50%		---	P-value		0.578	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.578
Stouffer's		Power	---		Power-50%		---	P-value		0.397	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.397

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Ectocarpus sp. (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	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		o	
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00												
Fisher's		Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	2.42	2.42	1.4	-	0.581	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	2.42	2.42	1.4	-	0.581
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.60	0.60		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.60	0.60		-	
Fisher's		Power	---		Power-50%		---	P-value		0.577	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.577
Stouffer's		Power	---		Powor-50%		---	P-value		0.328	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.328
30196C/30196	3	6	0.00	0.00	6	4.50	4.50	1.4	-	0.363	6	0.00	0.00	6	4.50	4.50	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
31252C/31248	3	6	0.00	0.00	6	1.00	0.68	1.0	-	0.203	6	0.00	0.00	6	0.67	0.67	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	3.17	3.17	1.4	-	0.362	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	1.1	+	0.391
Habitat Means			0.00	0.00		2.17	2.09		-			0.00	0.00		1.29	1.29		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.004		Power-50%		---	P-value		0.159	Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.373
											Power	---		Power-50%		---	P-value		0.124	Power	---		Power-50%		---	P-value		0.160

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

Table C-3.123. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

		Sphacelaria sp. (AE)								Morphological Group - Saccate Browns								Leathesia difformis (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.34	0.33	1.4	-	0.361	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		---	P-value		0.475	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.231	Power	---		Power-50%		---	P-value		0.232
30196C/30196	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	7.67	7.67	1.4	-	0.556	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	3.17	3.17	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	6.00	6.00	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.88	0.87		-			1.50	1.50		1.92	1.92		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.294	Power	---		Power-50%		---	P-value		0.571 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.660	Power	---		Power-50%		---	P-value		0.500

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

		Soranthera ulvoidea (A)																	
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	2	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363									
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.08	0.08		-										
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		
30196C/30196	3	6	0.00	0.00	6	7.67	7.67	1.4	-	0.556									
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	3	4	6.00	6.00	6	0.00	0.00	1.1	+	0.391									
Habitat Means			1.50	1.50		1.92	1.92		+										
Fisher's		Power	---		Power-50%		---	P-value		0.571 y	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.660	Power	---		Power-50%		---	P-value		

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

Table C-3.124. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Unidentified Red Blades							
Site Pair	MVD	N	C	SE	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	300.00	294.24	6	11.84	7.80	1.3	+	0.339	6	235.67	231.29	6	11.84	7.80	1.3	+	0.322	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363
31252C/31248	1	6	0.17	0.17	6	0.17	0.17	1.0	+	0.978	6	0.17	0.17	6	0.17	0.17	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.17	0.17	6	0.00	0.00	1.4	+	0.358	6	0.17	0.17	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	7.50	7.50	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			75.09	73.65		4.88	3.87		+			59.00	57.91		3.00	1.99		+			0.00	0.00		0.04	0.04		-	
Fisher's		Power	0.000		Power-50%		0.013	P-value		0.358	Power	0.000		Power-50%		0.001	P-value		0.277	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.001		Power-50%		0.268	P-value		0.148	Power	0.004		Power-50%		0.056	P-value		0.131	Power	---		Power-50%		---	P-value		0.232
30196C/30196	2	6	594.34	401.59	6	1622.42	1028.50	0.7	-	0.374	6	584.83	401.29	6	679.67	420.83	0.7	-	0.874	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	21.67	12.68	6	149.92	130.41	1.1	-	0.874	6	1.67	1.09	6	0.00	0.00	0.9	-	0.185	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	21.67	12.68	6	1.00	0.82	0.8	+	0.287	6	1.67	1.09	6	0.00	0.00	0.9	-	0.185	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	96.67	96.67	6	178.67	178.67	1.0	-	0.695	6	0.00	0.00	6	0.67	0.67	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			183.59	130.90		488.00	334.60		-			147.04	100.87		170.08	105.37		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.005		Power-50%		0.055	P-value		0.491	Power	0.049		Power-50%		0.207	P-value		0.198 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.022		Power-50%		0.133	P-value		0.330	Power	0.094		Power-50%		0.522	P-value		0.185	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	660.51	351.46	6	2414.67	560.55	0.3	-	0.024	6	570.17	268.60	6	1523.33	192.13	0.2	-	0.016	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	19.84	11.00	6	9.17	5.61	0.6	+	0.408	6	0.33	0.33	6	0.00	0.00	1.4	-	0.363	6	0.33	0.33	6	0.00	0.00	1.4	+	0.363
31252C/31252	3	6	19.84	11.00	6	95.84	71.38	0.9	-	0.687	6	0.33	0.33	6	1.67	1.48	1.1	-	0.530	6	0.33	0.33	6	0.17	0.17	1.1	-	0.664
99826C/33141	3	4	363.50	361.84	6	6.34	4.01	1.1	-	0.560	4	2.00	2.00	6	6.34	4.01	0.9	-	0.433	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			265.92	183.82		631.50	160.39		-			143.21	67.82		382.83	49.40		-			0.17	0.17		0.04	0.04		+	
Fisher's		Power	0.058		Power-50%		0.064	P-value		0.148	Power	---		Power-50%		---	P-value		0.046	Power	---		Power-50%		---	P-value		0.396
Stouffer's		Power	---		Power-50%		0.086	P-value		0.063	Power	---		Power-50%		---	P-value		0.036	Power	---		Power-50%		---	P-value		0.281

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

		Bangia sp. (AE)								Gigartinaceae Group (P) (a)								Total Palmaria (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	235.67	231.29	6	11.67	7.85	1.3	+	0.593	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			59.00	57.91		2.92	1.96		+			0.00	0.00		0.04	0.04		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.001		Power-50%		0.001	P-value		0.223	Power	---		Power-50%		---	P-value		0.295
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.009		Power-50%		0.061	P-value		0.119	Power	---		Power-50%		---	P-value		0.124
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	42.00	27.75	6	514.83	323.50	0.8	-	0.878	6	542.83	410.77	6	164.83	97.73	0.8	+	0.713
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	1.09	6	0.00	0.00	0.9	+	0.185	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.67	1.09	6	0.00	0.00	0.9	+	0.185	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.67	0.67	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			11.33	7.48		128.88	81.04		+			135.71	102.69		41.21	24.43		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.004		Power-50%		0.278	P-value		0.196 y	Power	0.000		Power-50%		0.000	P-value		0.622
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.010		Power-50%		0.526	P-value		0.184	Power	0.000		Power-50%		0.020	P-value		0.384
30196C/30196	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	329.83	295.97	6	513.33	204.51	0.6	-	0.621	6	240.00	112.09	6	972.00	282.56	0.4	-	0.037
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	1.50	1.50	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	1.7	-	0.363	4	0.00	0.00	6	3.17	3.17	1.7	-	0.363	4	0.00	0.00	6	3.17	3.17	1.7	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		-			82.46	73.99		129.50	52.29		-			60.00	28.02		243.79	71.43		-	
Fisher's		Power	---		Power-50%		---	P-value		0.295	Power	0.074		Power-50%		0.003	P-value		0.225	Power	---		Power-50%		---	P-value		0.077
Stouffer's		Power	---		Power-50%		---	P-value		0.348	Power	0.209		Power-50%		0.019	P-value		0.215	Power	---		Power-50%		---	P-value		0.040

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.124. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

		Palmaria spp. (A)								Palmaria callophylloides (A)								Palmaria hecatensis (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.04	0.04		-			0.00	0.00		0.00	0.00		o	
Fisher's	Power		---		Power-50%		---		P-value	0.698	Power		---		Power-50%		---		P-value	0.295	Power		---		Power-50%		---		P-value	0.698
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power		---		Power-50%		---		P-value	0.124	Power		---		Power-50%		---		P-value	0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	393.00	371.82	6	164.50	97.53	1.0	-	0.565	6	149.83	107.61	6	0.33	0.33	1.0	+	0.366
31252C/31248	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			98.25	92.95		41.13	24.38		+			37.46	26.90		0.08	0.08		+	
Fisher's	Power		---		Power-50%		---		P-value	0.698	Power	0.000			Power-50%	0.000		P-value	0.571	Power	0.004			Power-50%	0.004		P-value	0.478
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power	0.000			Power-50%	0.002		P-value	0.322	Power	0.001			Power-50%	0.030		P-value	0.233
30196C/30196	3	6	0.00	0.00	6	159.67	159.67	1.4	-	0.363	6	144.67	107.82	6	633.33	196.54	0.4	-	0.054	6	95.33	62.19	6	179.00	95.60	0.6	-	0.480
31252C/31248	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00		- o	1.000	4	0.00	0.00	6	3.17	3.17	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		39.92	39.92		-			36.17	26.96		159.13	49.93		-			23.83	15.55		44.75	23.90		-	
Fisher's	Power		---		Power-50%		---		P-value	0.477	Power		---		Power-50%		---		P-value	0.099	Power	0.001			Power-50%	0.001		P-value	0.535
Stouffer's	Power		---		Power-50%		---		P-value	0.232	Power		---		Power-50%		---		P-value	0.053	Power	0.000			Power-50%	0.087		P-value	0.285

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

		Porphyra sp. (A)								Tokidadendron kurilensis (A)								Morphological Group - Coarse Filamentous Reds							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	64.33	62.94	6	0.00	0.00	1.4	+	0.354
31252C/31248	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
31252C/31252	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
99826C/33141	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	7.17	7.17	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			16.08	15.74		1.79	1.79		-	
Fisher's	Power		---		Power-50%		---		P-value	0.698	Power		---		Power-50%		---		P-value	0.698	Power	0.002			Power-50%	0.002		P-value	0.220
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power		---		Power-50%		---		P-value	0.500	Power	---			Power-50%	---		P-value	0.076
30196C/30196	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.67	0.42	6	322.75	222.86	1.0	-	0.044
31252C/31248	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	13.17	8.33	6	133.67	132.07	1.3	-	0.647
31252C/31252	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	13.17	8.33	6	0.34	0.33	0.9	+	0.570
99826C/33141	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	96.67	96.67	6	98.50	98.50	1.0	-	0.990
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			30.92	28.44		138.81	113.44		-	
Fisher's	Power		---		Power-50%		---		P-value	0.698	Power		---		Power-50%		---		P-value	0.698	Power	0.021			Power-50%	0.021		P-value	0.153
Stouffer's	Power		---		Power-50%		---		P-value	0.500	Power		---		Power-50%		---		P-value	0.500	Power	---			Power-50%	---		P-value	0.051
30196C/30196	3	6	0.33	0.33	6	37.33	10.65	0.4	-	0.007	6	0.00	0.00	6	0.67	0.67	1.4	-	0.363	6	88.84	88.23	6	189.33	170.60	1.0	-	0.612
31252C/31248	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	9.33	8.94	6	0.67	0.42	1.3	+	0.869
31252C/31252	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	9.33	8.94	6	37.84	37.84	1.2	-	0.693
99826C/33141	3	4	2.00	2.00	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00		- o	1.000	4	329.00	327.34	6	0.00	0.00	1.1	+	0.389
Habitat Means			0.58	0.58		9.33	2.66		-			0.00	0.00		0.17	0.17		-			109.13	108.36		56.96	52.21		+	
Fisher's	Power		---		Power-50%		---		P-value	0.071	Power		---		Power-50%		---		P-value	0.477	Power	0.017			Power-50%	0.017		P-value	0.589
Stouffer's	Power		---		Power-50%		---		P-value	0.078	Power		---		Power-50%		---		P-value	0.232	Power	0.045			Power-50%	0.339		P-value	0.659

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

Table C-3.124. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Dumontia contorta (AE) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	63.50	63.10	6	0.00	0.00	1.4	+	0.360
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			15.88	15.78		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698	Power	0.000		Power-50%	0.000	P-value			0.475
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	0.000		Power-50%	0.000	P-value			0.231
30196C/30196	2	6	0.00	0.00	6	1.83	1.83	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.33	0.33	6	0.00	0.00	1.4	-	0.363
31252C/31248	2	6	1.50	1.50	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
31252C/31252	2	6	1.50	1.50	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.75	0.75		0.46	0.46		-			0.00	0.00		0.00	0.00		o			0.08	0.08		0.04	0.04		-	
Fisher's		Power	---		Power-50%	---	P-value			0.376	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.376 y
Stouffer's		Power	---		Power-50%	---	P-value			0.493	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.493
30196C/30196	3	6	0.00	0.00	6	28.50	28.50	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	88.67	88.27	6	0.00	0.00	1.4	-	0.361
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	37.83	37.83	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		16.58	16.58		-			0.00	0.00		0.00	0.00		o			22.17	22.07		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value			0.295	Power	---		Power-50%	---	P-value			0.698	Power	0.000		Power-50%	0.000	P-value			0.475
Stouffer's		Power	---		Power-50%	---	P-value			0.145	Power	---		Power-50%	---	P-value			0.500	Power	0.000		Power-50%	0.000	P-value			0.231

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

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.83	0.83	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	6.50	6.50	1.4	-	0.363	6	0.00	0.00	6	6.50	6.50	1.4	-	0.363
Habitat Means			0.21	0.21		0.00	0.00		-			0.00	0.00		1.63	1.63		-			0.00	0.00		1.63	1.63		-	
Fisher's		Power	---		Power-50%	---	P-value			0.477	Power	---		Power-50%	---	P-value			0.477	Power	---		Power-50%	---	P-value			0.477
Stouffer's		Power	---		Power-50%	---	P-value			0.232	Power	---		Power-50%	---	P-value			0.474	Power	---		Power-50%	---	P-value			0.474
30196C/30196	2	6	0.00	0.00	6	1.83	1.83	1.4	-	0.588	6	0.00	0.00	6	295.83	200.80	1.0	-	0.201	6	0.00	0.00	6	295.83	200.80	1.0	-	0.201
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.33	4.33	6	132.84	132.23	1.4	-	0.393	6	4.33	4.33	6	132.34	132.33	1.4	-	0.696
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	4.33	4.33	6	0.00	0.00	1.4	+	0.363	6	4.33	4.33	6	0.00	0.00	1.4	+	0.363
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	96.67	96.67	6	98.50	98.50	1.0	-	0.990	6	96.67	96.67	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.46	0.46		-			26.33	26.33		131.79	107.88		-			26.33	26.33		107.04	83.28		-	
Fisher's		Power	---		Power-50%	---	P-value			0.469	Power	0.002		Power-50%	---	P-value			0.290	Power	0.000		Power-50%	*0.000*	P-value			*0.483*
Stouffer's		Power	---		Power-50%	---	P-value			0.244	Power	0.019		Power-50%	---	P-value			0.134	Power	0.000		Power-50%	---	P-value			0.206
30196C/30196	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	141.00	141.00	1.4	-	0.363	6	0.00	0.00	6	141.00	141.00	1.4	-	0.363
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	9.00	9.00	6	0.67	0.42	1.3	+	0.724	6	9.00	9.00	6	0.67	0.42	1.3	-	0.724
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	9.00	9.00	6	0.00	0.00	1.4	+	0.553	6	9.00	9.00	6	0.00	0.00	1.4	+	0.553
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	329.00	327.34	6	0.00	0.00	1.1	+	0.389	4	1.25	1.25	6	0.00	0.00	1.1	-	0.391
Habitat Means			0.00	0.00		0.00	0.00		o			86.75	86.33		35.42	35.36		+			4.81	4.81		35.42	35.36		+	
Fisher's		Power	---		Power-50%	---	P-value			0.698	Power	0.002		Power-50%	0.003	P-value			0.407	Power	0.056		Power-50%	0.056	P-value			0.408
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	0.015		Power-50%	0.000	P-value			0.615	Power	0.065		Power-50%	---	P-value			0.616

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

Table C-3.124. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698	Power	---		Power-50%	---	P-value			0.698
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.33	0.33	6	1.08	0.71	0.8	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.50	0.50	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	98.50	98.50	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		24.75	24.75		-			0.08	0.08		0.27	0.18		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.295	Power	0.005		Power-50%	---	P-value			0.476	Power	---		Power-50%	---	P-value			0.698
Stouffer's		Power	---		Power-50%	---	P-value			0.312	Power	0.001		Power-50%	---	P-value			0.232	Power	---		Power-50%	---	P-value			0.500
30196C/30196	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	8.83	6.00	0.9	-	0.921	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	327.75	327.75	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			81.94	81.94		0.00	0.00		+			0.04	0.04		2.21	1.50		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.492	Power	0.000		Power-50%	0.000	P-value			0.680	Power	---		Power-50%	---	P-value			0.698
Stouffer's		Power	---		Power-50%	---	P-value			0.475	Power	0.000		Power-50%	0.010	P-value			0.468	Power	---		Power-50%	---	P-value			0.500

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

Site Pair	MVD	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Unidentified Red Fine Filaments N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	0.9	+	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.67	0.67	1.4	-	0.363	6	0.00	0.00	6	0.34	0.33	1.4	-	0.361	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17		+			0.00	0.00		0.08	0.08		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.376 y	Power	---		Power-50%	---	P-value			0.094 y	Power	---		Power-50%	---	P-value			0.698
Stouffer's		Power	---		Power-50%	---	P-value			0.248	Power	---		Power-50%	---	P-value			0.037	Power	---		Power-50%	---	P-value			0.500
30196C/30196	2	6	0.00	0.00	6	22.17	21.77	1.4	-	0.355	6	3.00	1.92	6	31.67	16.74	0.7	-	0.477	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	7.33	6.39	6	0.83	0.83	1.1	+	0.503	6	6.84	5.30	6	16.25	15.76	1.0	-	0.584	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	7.33	6.39	6	0.17	0.17	1.2	+	0.431	6	6.84	5.30	6	0.67	0.49	1.0	+	0.331	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	79.50	79.50	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			3.67	3.19		5.79	5.69		+			4.17	3.13		32.02	28.12		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%	0.005	P-value			0.473 y	Power	0.022		Power-50%	0.034	P-value			0.334	Power	---		Power-50%	---	P-value			0.698
Stouffer's		Power	0.001		Power-50%	0.000	P-value			0.560	Power	0.090		Power-50%	0.026	P-value			0.292	Power	---		Power-50%	---	P-value			0.500
30196C/30196	3	6	0.00	0.00	6	11.00	7.08	0.9	-	0.092	6	0.00	0.00	6	192.00	191.80	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.33	0.33	6	0.00	0.00	1.4	+	0.363	6	10.17	9.02	6	8.51	5.56	0.8	+	0.878	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.33	0.33	6	0.00	0.00	1.4	+	0.639	6	10.17	9.02	6	55.84	33.02	0.7	+	0.212	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	32.50	32.50	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.17	0.17		2.75	1.77		+			13.21	12.63		64.09	57.59		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%	---	P-value			0.518 xy	Power	0.007		Power-50%	0.009	P-value			0.302	Power	---		Power-50%	---	P-value			0.698
Stouffer's		Power	0.001		Power-50%	---	P-value			0.779	Power	0.034		Power-50%	0.000	P-value			0.148	Power	---		Power-50%	---	P-value			0.500

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

Table C-3.124. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P	Erythrotrichia sp. (AE) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	1.50	1.50	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	1.08	1.08	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.38	0.38		0.00	0.00		+			0.00	0.00		0.27	0.27		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	58.50	58.50	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		14.63	14.63		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.124	Power	---		Power-50%		---	P-value		0.373

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

Site Pair	MVD	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Tiffaniella snyderae (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.34	0.33	1.4	-	0.361	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.094 y	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		0.079	P-value		0.037	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	1.50	1.31	6	30.58	16.39	0.7	-	0.406	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	5.83	5.83	6	588.33	416.40	1.0	-	0.228
31252C/31248	2	6	6.84	5.30	6	16.25	15.76	1.0	-	0.584	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	6	6.84	5.30	6	0.67	0.49	1.0	+	0.331	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	79.50	79.50	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.46	1.46	6	147.08	104.10	-		
Habitat Means			3.79	2.98		31.75	28.03		-			0.00	0.00		0.00	0.00		o										
Fisher's		Power	0.028		Power-50%		0.027	P-value		0.308	Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.386
Stouffer's		Power	0.108		Power-50%		0.022	P-value		0.260	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.166
30196C/30196	3	6	0.00	0.00	6	133.50	133.30	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.50	1.02	6	510.00	316.26	0.9	-	0.031
31252C/31248	3	6	10.17	9.02	6	8.50	5.56	0.8	+	0.878	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	10.17	9.02	6	52.67	30.12	0.7	-	0.206	6	0.00	0.00	6	3.17	3.17	1.4	-	0.363	6	0.00	0.00	6	0.50	0.50	1.4	-	0.363
99826C/33141	3	4	32.50	32.50	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			13.21	12.63		48.67	42.25		-			0.00	0.00		0.79	0.79		-			0.38	0.26		127.63	79.19		-	
Fisher's		Power	0.015		Power-50%		0.005	P-value		0.298	Power	---		Power-50%		---	P-value		0.295	Power	---		Power-50%		---	P-value		0.069
Stouffer's		Power	0.053		Power-50%		0.000	P-value		0.147	Power	---		Power-50%		---	P-value		0.227	Power	---		Power-50%		---	P-value		0.019

(a) Genera not separated.

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

Table 124. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31248	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value		0.698	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value		0.500	Power		---		Power-50%		---	P-value	
30196C/30196	2	6	5.83	5.83	6	588.33	416.40	1.0	-	0.228	6	5.83	5.83	6	588.33	416.40	1.0	-	0.228									
31252C/31248	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			1.46	1.46		147.08	104.10		-			1.46	1.46		147.08	104.10		-										
Fisher's	Power		0.000		Power-50%		---	P-value		0.386	Power		0.000		Power-50%		---	P-value		0.386	Power		---		Power-50%		---	P-value	
Stouffer's	Power		0.000		Power-50%		---	P-value		0.166	Power		0.000		Power-50%		---	P-value		0.166	Power		---		Power-50%		---	P-value	
30196C/30196	3	6	1.50	1.02	6	510.00	316.26	0.9	-	0.031	6	1.50	1.02	6	510.00	316.26	0.9	-	0.031									
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	3	6	0.00	0.00	6	0.50	0.50	1.4	-	0.363	6	0.00	0.00	6	0.50	0.50	1.4	-	0.363									
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.38	0.26		127.63	79.19		-			0.38	0.26		127.63	79.19		-										
Fisher's	Power		---		Power-50%		---	P-value		0.069	Power		---		Power-50%		---	P-value		0.069	Power		---		Power-50%		---	P-value	
Stouffer's	Power		---		Power-50%		0.197	P-value		0.019	Power		---		Power-50%		---	P-value		0.019	Power		---		Power-50%		---	P-value	

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

Table C-3.125. Algal Biomass. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; 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 Taxa Richness (a)							Total Algae							Perennials (P)						
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.83	0.54	5	2.00	0.63	0.4	-	0.193	6	412.50	411.50	5	3698.41	2757.84	0.9	-	0.095	6	412.50	411.50	5	3667.41	2767.36	0.9	-	0.098
31252C/31248	1	5	0.80	0.37	6	0.33	0.21	0.5	+	0.285	5	1793.00	1564.20	6	106.50	95.19	1.0	+	0.345	5	1793.00	1564.20	6	106.50	95.19	1.0	+	0.345
31252C/31252	1	5	0.80	0.37	6	0.33	0.33	0.6	-	0.375	5	1793.00	1564.20	6	1.83	1.83	1.1	-	0.097	5	1793.00	1564.20	6	1.83	1.83	1.1	+	0.097
99826C/33141	1	6	0.33	0.33	6	0.17	0.17	1.1	+	0.664	6	10.00	10.00	6	46.17	46.17	1.2	-	0.940	6	9.83	9.83	6	46.17	46.17	1.2	-	0.940
Habitat Means			0.69	0.41		0.71	0.34		+			1002.13	887.47		963.23	725.26		-			1002.08	887.43		955.48	727.64		-	
Fisher's	Power		0.179		Power-50%		0.686	P-value		0.290 y	Power	0.007		Power-50%		0.117	P-value		0.425xy	Power	0.036		Power-50%		0.036	P-value		0.205x
Stouffer's	Power		0.101		Power-50%		0.412	P-value		0.580	Power	0.003		Power-50%		0.031	P-value		0.375	Power	0.032		Power-50%		0.034	P-value		0.620
30196C/30196	2	6	3.83	1.22	6	6.33	1.45	0.3	-	0.217	6	2002.51	1024.89	6	2139.35	749.85	0.4	-	0.916	6	1880.50	1007.16	6	1973.67	733.87	0.5	-	0.942
31252C/31248	2	5	0.80	0.37	6	1.50	0.43	0.4	-	0.259	5	163.80	156.85	6	1478.17	1140.77	1.1	-	0.306	5	162.60	157.15	6	1477.00	1141.07	1.1	-	0.296
31252C/31252	2	5	0.80	0.37	6	0.83	0.54	0.6	-	0.962	5	163.80	156.85	6	17.84	15.74	1.1	+	0.411	5	162.60	157.15	6	3.67	2.45	1.2	-	0.387
99826C/33141	2	6	2.17	0.60	6	0.83	0.83	0.5	+	0.224	6	168.01	113.16	6	81.34	81.34	0.8	+	0.548	6	168.01	113.16	6	81.00	81.00	0.8	+	0.546
Habitat Means			1.90	0.64		2.37	0.81		-			624.53	362.94		929.17	496.93		-			593.43	358.65		883.83	489.59		-	
Fisher's	Power		0.190		Power-50%		0.811	P-value		0.250	Power	0.031		Power-50%		0.128	P-value		0.601	Power	0.025		Power-50%		0.025	P-value		0.603
Stouffer's	Power		---		Power-50%		0.581	P-value		0.074	Power	0.054		Power-50%		0.056	P-value		0.411	Power	0.044		Power-50%		0.052	P-value		0.423
30196C/30196	3	6	5.67	1.45	5	8.20	1.62	0.2	-	0.274	6	1128.84	401.19	5	1644.01	333.07	0.3	-	0.361	6	679.00	344.74	5	1006.20	305.09	0.4	-	0.504
31252C/31248	3	6	1.17	0.48	6	2.67	0.71	0.3	-	0.112	6	275.83	172.35	6	415.00	190.58	0.5	-	0.600	6	273.83	172.97	6	214.50	98.77	0.6	+	0.772
31252C/31252	3	6	1.17	0.48	5	3.00	2.32	0.7	-	0.480	6	275.83	172.35	5	1199.41	933.22	0.8	-	0.628	6	273.83	172.97	5	1154.20	926.13	0.8	-	0.909
99826C/33141	3	4	2.25	1.32	6	1.33	1.33	0.8	+	0.653	4	103.00	44.43	6	1169.34	1169.34	1.6	-	0.147	4	63.00	36.52	6	1065.67	1065.67	1.6	-	0.438
Habitat Means			2.56	0.93		3.80	1.50		-			445.88	197.58		1106.94	656.55		-			322.42	181.80		860.14	598.91		-	
Fisher's	Power		---		Power-50%		---	P-value		0.099	Power	---		Power-50%		---	P-value		0.100	Power	0.163		Power-50%		0.163	P-value		0.400
												0.301				0.108	P-value		0.104	Power	0.215		Power-50%		0.101	P-value		0.308

(a) 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.

		Annuals (A)							Ephemerals (AE)																		
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	31.00	31.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00		-	o	1.000								
31252C/31248	1	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o	1.000								
31252C/31252	1	5	0.00	0.00	6	0.00	0.00		-	o 1.000	5	0.00	0.00	6	0.00	0.00		-	o	1.000								
99826C/33141	1	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.17	0.17	6	0.00	0.00	1.4	+		0.363								
Habitat Means			0.04	0.04		7.75	7.75		+			0.04	0.04		0.00	0.00		+										
Fisher's	Power		0.000		Power-50%		---	P-value		0.581 y	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.000		Power-50%		---	P-value		0.742	Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		
30196C/30196	2	6	122.01	114.88	6	165.68	132.94	0.9	-	0.809	6	0.00	0.00	6	4.34	4.33	1.4	-	0.090								
31252C/31248	2	5	1.20	1.20	6	1.17	0.83	0.8	+	0.982	5	0.00	0.00	6	0.00	0.00		-	o	1.000								
31252C/31252	2	5	1.20	1.20	6	14.17	13.58	1.4	-	0.618	5	0.00	0.00	6	0.00	0.00		-	o	1.000								
99826C/33141	2	6	0.01	0.00	6	0.34	0.34	1.4	-	1.000	6	0.00	0.00	6	0.01	0.01	1.4	-		0.363								
Habitat Means			31.10	29.32		45.34	36.92		-			0.00	0.00		1.09	1.08		-										
Fisher's	Power		0.022		Power-50%		0.187	P-value		0.548	Power	0.001		Power-50%		---	P-value		0.135	Power	---		Power-50%		---	P-value		
Stouffer's	Power		0.082		Power-50%		0.136	P-value		0.359	Power	---		Power-50%		---	P-value		0.076	Power	---		Power-50%		---	P-value		
30196C/30196	3	6	449.84	148.84	5	637.81	274.01	0.4	-	0.543	6	88.34	78.35	5	116.61	64.51	0.7	-	0.793								
31252C/31248	3	6	2.00	2.00	6	200.50	173.21	1.2	-	0.072	6	0.00	0.00	6	0.00	0.00		-	o	1.000								
31252C/31252	3	6	2.00	2.00	5	45.21	35.84	1.0	-	0.369	6	0.00	0.00	5	0.00	0.00	1.3	-		0.374								
99826C/33141	3	4	40.00	23.45	6	103.67	103.67	1.3	-	0.640	4	1.50	1.50	6	96.34	96.34	1.7	-		0.969								
Habitat Means			123.46	44.07		246.80	146.68		-			22.46	19.96		53.24	40.21		-										
Fisher's	Power		---		Power-50%		---	P-value		0.061	Power	0.014		Power-50%		0.000	P-value		0.430	Power	---		Power-50%		---	P-value		
																0.010	P-value		0.298	Power	---		Power-50%		---	P-value		

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

Table C-3.126. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Chlorophyta								Morphological Group - Bladed Greens								Kornmannia leptoderma (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.04	0.04		0.00	0.00		+			0.04	0.04		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.01	0.01	0.8	-	0.267	6	0.00	0.00	6	0.01	0.00	0.8	-	0.401	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.037		Power-50%		---	P-value		0.251	Power	0.002		Power-50%		---	P-value		0.497	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.041		Power-50%		---	P-value		0.169	Power	0.001		Power-50%		---	P-value		0.249	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	102.51	76.31	5	116.60	64.51	0.7	-	0.894	6	0.00	0.00	5	68.80	67.31	1.2	-	0.092	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	3	4	1.25	1.25	6	95.67	95.67	1.7	-	0.978	4	1.25	1.25	6	95.00	95.00	1.7	-	0.978	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			25.94	19.39		53.07	40.05		-			0.31	0.31		40.95	40.58		-			0.00	0.00		0.00	0.00		+	
Fisher's		Power	0.031		Power-50%		0.005	P-value		0.455	Power	0.000		Power-50%		---	P-value		0.240	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.080		Power-50%		0.056	P-value		0.335	Power	---		Power-50%		---	P-value		0.087	Power	---		Power-50%		---	P-value		0.232

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

		Monostroma/Ulvaria (AE) (b)								Total Ulva (AE)								Ulva spp. (AE)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.17	0.17	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.04	0.04		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.016		Power-50%		---	P-value		0.339	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		---	P-value		0.137	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	0.00	0.00	5	47.80	47.30	1.3	-	0.369	6	0.00	0.00	5	21.00	20.01	1.2	-	0.353	6	0.00	0.00	5	21.00	20.01	1.2	-	0.353
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	3	4	1.25	1.25	6	95.00	95.00	1.7	-	0.978	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.31	0.31		35.70	35.58		-			0.00	0.00		5.25	5.00		-			0.00	0.00		5.25	5.00		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.475	Power	0.000		Power-50%		---	P-value		0.471	Power	0.000		Power-50%		0.000	P-value		0.471
Stouffer's		Power	0.000		Power-50%		---	P-value		0.234	Power	0.000		Power-50%		---	P-value		0.227	Power	0.000		Power-50%		---	P-value		0.227

(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-3.126. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens								Unidentified Green Fine Filaments								Acrosiphonia sp. (A)							
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.052		Power-50%		---	P-value		0.198	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.047		Power-50%		---	P-value		0.123	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	14.51	13.52	5	47.80	35.53	0.8	-	0.371	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	14.50	13.52	5	0.00	0.00	1.5	+	0.333
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			3.63	3.38		11.95	8.88		-			0.00	0.00		0.00	0.00		o			3.63	3.38		0.00	0.00		-	
Fisher's		Power	0.021		Power-50%		0.000	P-value		0.174	Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.459
Stouffer's		Power	0.110		Power-50%		0.004	P-value		0.135	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.025	P-value		0.218

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

Site Pair	MVD	Total Chaetomorpha/Rhizoclonium (A)									Chaetomorpha/Rhizoclonium spp. (A) (b)									Cladophora sp. (AE)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
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	0.016		Power-50%		---	P-value		0.339	Power	0.018		Power-50%		---	P-value		0.339	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.000		Power-50%		---	P-value		0.137	Power	0.000		Power-50%		---	P-value		0.137	Power	---		Power-50%		---	P-value		0.474
30196C/30196	3	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	47.80	35.53	0.9	-	0.072
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			0.00	0.00		11.95	8.88		-	
Fisher's		Power	---		Power-50%		---	P-value		0.581 y	Power	---		Power-50%		---	P-value		0.581 y	Power	0.164		Power-50%		0.164	P-value		0.120
Stouffer's		Power	---		Power-50%		---	P-value		0.339	Power	---		Power-50%		---	P-value		0.339	Power	---		Power-50%		---	P-value		0.039

Table C-3.126. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Urospora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	1.6	+	0.363	6	88.00	78.43	5	0.00	0.00	1.4	+	0.313
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.67	1.7	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		+			22.00	19.61		0.17	0.17		+	
Fisher's		Power	---		Power-50%		---	P-value		0.582 y	Power	---		Power-50%		---	P-value		0.477	Power	0.000		Power-50%	0.000	P-value		0.549
Stouffer's		Power	---		Power-50%		---	P-value		0.253	Power	---		Power-50%		---	P-value		0.232	Power	0.000		Power-50%	0.000	P-value		0.228

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

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o									
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	3	6	88.00	78.43	5	0.00	0.00	1.4	+	0.313	6	88.00	78.43	5	0.00	0.00	1.4	+	0.313									
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
99826C/33141	3	4	0.00	0.00	6	0.67	0.67	1.7	-	0.363	4	0.00	0.00	6	0.67	0.67	1.7	-	0.363									
Habitat Means			22.00	19.61		0.17	0.17		+			22.00	19.61		0.17	0.17		+									
Fisher's		Power	0.000		Power-50%		0.001	P-value		0.549	Power	0.000		Power-50%		0.000	P-value		0.549	Power	---		Power-50%		---	P-value		
[illegible]		[illegible]	0.000		[illegible]		0.000	P-value		0.228	[illegible]	0.000		[illegible]		0.000	P-value		0.228	Power	---		Power-50%		---	P-value		

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.127. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Phaeophyta								Morphological Group - Bladed Browns								Unidentified Bladed Browns							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	406.67	405.87	5	3669.60	2766.68	0.9	-	0.095	6	406.67	405.87	5	3667.40	2767.36	0.9	-	0.096	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	1793.00	1564.20	6	106.50	95.19	1.0	+	0.345	5	1793.00	1564.20	6	106.50	95.19	1.0	+	0.345	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	1793.00	1564.20	6	0.67	0.67	1.1	+	0.085	5	1793.00	1564.20	6	0.67	0.67	1.1	+	0.085	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	9.83	9.83	6	46.17	46.17	1.2	-	0.940	6	9.83	9.83	6	46.17	46.17	1.2	-	0.940	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1000.63	886.02		955.73	727.17		+			1000.63	886.02		955.18	727.35		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.037		Power-50%		0.121	P-value		0.190x	Power	0.036		Power-50%		0.118	P-value		0.190x	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.032		Power-50%		0.278	P-value		0.616	Power	0.029		Power-50%		0.274	P-value		0.615	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	1575.00	845.08	6	1402.00	618.27	0.5	+	0.872	6	1575.00	845.08	6	1397.67	619.01	0.5	+	0.869	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	5	162.40	157.20	6	1467.50	1141.25	1.1	-	0.171	5	162.40	157.20	6	1467.50	1141.25	1.1	-	0.171	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	162.40	157.20	6	2.17	2.17	1.2	+	0.363	5	162.40	157.20	6	2.17	2.17	1.2	+	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	124.17	109.94	6	81.00	81.00	0.9	+	0.758	6	124.17	109.94	6	81.00	81.00	0.9	+	0.758	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			505.99	317.36		738.17	460.67		+			505.99	317.36		737.08	460.86		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.026		Power-50%		0.125	P-value		0.516 y	Power	0.025		Power-50%		0.141	P-value		0.516 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.043		Power-50%		0.251	P-value		0.565	Power	0.042		Power-50%		0.282	P-value		0.564	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	722.67	367.97	5	452.21	312.50	0.6	+	0.598	6	722.67	367.97	5	452.20	312.50	0.6	+	0.598	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	270.67	172.11	6	271.00	197.04	0.7	-	0.999	6	270.67	172.11	6	86.67	51.80	0.7	+	0.330	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	270.67	172.11	5	1118.20	890.95	0.8	-	0.919	6	270.67	172.11	5	1118.20	890.95	0.8	-	0.919	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	3	4	81.00	48.90	6	1065.34	1065.34	1.6	-	0.428	4	61.00	35.28	6	1064.67	1064.67	1.6	-	0.439	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			336.25	190.27		726.69	616.46		-			331.25	186.87		680.43	579.98		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.016		Power-50%		0.210	P-value		0.565	Power	0.031		Power-50%		0.222	P-value		0.459 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.033		Power-50%		0.350	P-value		0.629	Power	0.051		Power-50%		0.338	P-value		0.216	Power	---		Power-50%		---	P-value		0.500

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

		Alaria sp. (A)								Fucus gardneri (P)								Laminaria sp. (P)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	406.67	405.87	5	3667.40	2767.36	0.9	-	0.096	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1793.00	1564.20	6	106.50	95.19	1.0	+	0.345	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	1793.00	1564.20	6	0.67	0.67	1.1	+	0.085	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	9.83	9.83	6	46.17	46.17	1.2	-	0.940	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			1000.63	886.02		955.18	727.35		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.038		Power-50%		0.132	P-value		0.190x	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.030		Power-50%		0.283	P-value		0.615	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1575.00	845.08	6	1397.67	619.01	0.5	+	0.869	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	162.40	157.20	6	1467.50	1141.25	1.1	-	0.171	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	162.40	157.20	6	2.17	2.17	1.2	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	124.17	109.94	6	81.00	81.00	0.9	+	0.758	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			505.99	317.36		737.08	460.86		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.027		Power-50%		0.130	P-value		0.516 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.044		Power-50%		0.261	P-value		0.564	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	131.83	101.99	5	4.00	4.00	1.2	+	0.552	6	590.83	352.61	5	448.20	313.90	0.7	+	0.774	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	270.67	172.11	6	86.67	51.80	0.7	+	0.330	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	270.67	172.11	5	1118.20	890.95	0.8	-	0.919	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	61.00	35.28	6	1064.00	1064.00	1.6	-	0.439	4	0.00	0.00	6	0.67	0.67	1.7	-	0.363
Habitat Means			32.96	25.50		1.00	1.00		+			298.29	183.03		679.27	580.16		+			0.00	0.00		0.17	0.17		-	
Fisher's		Power	0.000		Power-50%		0.001	P-value		0.566	Power	0.028		Power-50%		0.220	P-value		0.512 y	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.316	Power	0.047		Power-50%		0.337	P-value		0.277	Power	---		Power-50%		---	P-value		0.474

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

Table C-3.127. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Chordaria flagelliformis (A) N	C	SE	N	O	SE	CV	D	P	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	2.20	2.20	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	2.20	2.20	1.3	-	0.374
31252C/31248	1	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.55	0.55		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.55	0.55		-	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.483
Stouffer's		Power	---		Power-50%		---	P-value		0.237	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.237
30196C/30196	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.477
Stouffer's		Power	---		Power-50%		---	P-value		0.474	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.474
30196C/30196	3	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
31252C/31248	3	6	0.00	0.00	6	184.33	173.95	1.3	-	0.338	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	184.33	173.95	1.3	-	0.338
31252C/31252	3	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
99826C/33141	3	4	19.75	19.75	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00		- o	1.000	4	19.75	19.75	6	0.00	0.00	1.1	+	0.391
Habitat Means			4.94	4.94		46.08	43.49		-			0.00	0.00		0.00	0.00		o			4.94	4.94		46.08	43.49		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.562	Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		0.000	P-value		0.562
Stouffer's		Power	0.000		Power-50%		---	P-value		0.350	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.350

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

Site Pair	MVD	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Ectocarpus sp. (AE) N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	4.34	4.33	1.4	-	0.363	6	0.00	0.00	6	4.33	4.33	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175
31252C/31248	2	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		1.08	1.08		-			0.00	0.00		1.08	1.08		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.294	Power	---		Power-50%		---	P-value		0.477	Power	0.057		Power-50%		0.057	P-value		0.198
Stouffer's		Power	0.000		Power-50%		---	P-value		0.212	Power	---		Power-50%		---	P-value		0.232	Power	0.050		Power-50%		---	P-value		0.123
30196C/30196	3	6	0.00	0.00	5	0.01	0.00	0.8	-	0.208	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.01	0.00	0.8		0.208
31252C/31248	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
99826C/33141	3	4	0.25	0.25	6	0.67	0.67	1.3	-	0.639	4	0.00	0.00	6	0.00	0.00		- o	1.000	4	0.25	0.25	6	0.67	0.67	1.3	-	0.639
Habitat Means			0.06	0.06		0.17	0.17		-			0.00	0.00		0.00	0.00		o			0.06	0.06		0.17	0.17		-	
Fisher's		Power	0.072		Power-50%		---	P-value		0.173	Power	---		Power-50%		---	P-value		0.698	Power	0.014		Power-50%		0.014	P-value		0.296
Stouffer's		Power	---		Power-50%		---	P-value		0.086	Power	---		Power-50%		---	P-value		0.500	Power	0.014		Power-50%		---	P-value		0.147

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

Table C-3.127. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.376	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000																		
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000																		
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000																		
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000																		
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000																		
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
30196C/30196	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000																		
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000																		
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.128. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Rhodophyta								Morphological Group - Bladed Reds								Unidentified Red Blades							
Site Pair	**MVD**	N	C	SE	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	5.83	5.64	5	28.81	28.80	1.1	-	0.719	6	0.50	0.34	5	28.81	28.80	1.2	-	0.625	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	1.3	-	0.374	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	1.17	1.17	1.6	-	0.683	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.46	1.41		7.49	7.49		-			0.13	0.09		7.20	7.20		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.003	P-value		0.648	Power	0.001		Power-50%		0.100	P-value		0.356 y	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.000		Power-50%		0.043	P-value		0.492	Power	0.007		Power-50%		0.225	P-value		0.367	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	427.50	186.70	6	737.33	252.28	0.4	-	0.347	6	366.67	162.35	6	468.67	207.03	0.4	-	0.706	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	5	1.40	1.40	6	10.67	9.30	1.2	-	0.350	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	1.40	1.40	6	15.67	13.59	1.2	-	0.594	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	43.84	43.43	6	0.34	0.34	1.4	+	0.171	6	0.00	0.00	6	0.00	0.00	1.0	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			118.54	58.23		191.00	68.88		-			91.67	40.59		117.17	51.76		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.038		Power-50%		0.039	P-value		0.295	Power	0.004		Power-50%		0.005	P-value		0.620	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		0.151	P-value		0.100	Power	0.003		Power-50%		0.004	P-value		0.381	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	303.67	125.82	5	1075.21	368.38	0.4	-	0.061	6	287.00	117.69	5	773.00	303.88	0.4	-	0.144	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	5.17	2.34	6	144.00	89.07	0.8	-	0.141	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	5.17	2.34	5	81.20	50.05	0.7	+	0.993	6	0.67	0.67	5	3.60	3.60	1.1	-	0.828	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	3	4	20.75	16.49	6	8.33	8.33	0.8	+	0.478	4	0.00	0.00	6	7.33	7.33	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			83.69	36.75		327.19	128.96		-			72.08	29.76		195.98	78.70		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.076	Power	0.137		Power-50%		0.024	P-value		0.211	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		0.582	P-value		0.016	Power	0.127		Power-50%		0.089	P-value		0.185	Power	---		Power-50%		---	P-value		0.500

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

		Sangia sp. (AE)								Gigartinaceae Group (P) (a)								Total Palmaria (A)							
Site Pair	**MVD**	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.50	0.34	5	0.00	0.00	1.1	+	0.598	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.3	+	0.374	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.13	0.09		0.00	0.00		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.149		Power-50%		0.092	P-value		0.231	Power	---		Power-50%		---	P-value		0.483
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.290		Power-50%		0.221	P-value		0.124	Power	---		Power-50%		---	P-value		0.237
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	249.50	144.36	6	355.17	133.88	0.5	-	0.603	6	117.17	115.17	6	113.50	103.64	0.9	+	0.982
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			62.38	36.09		88.79	33.47		+			29.29	28.79		28.38	25.91		+	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	0.001		Power-50%		0.010	P-value		0.547 y	Power	0.000		Power-50%		0.000	P-value		0.694
Stouffer's		Power	---		Power-50%		---	P-value		0.474	Power	0.001		Power-50%		0.010	P-value		0.638	Power	0.000		Power-50%		0.000	P-value		0.493
30196C/30196	3	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	88.17	58.26	5	405.00	231.41	0.6	-	0.181	6	197.50	87.01	5	340.80	183.83	0.5	-	0.474
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.67	0.67	5	2.20	2.20	1.0	-	0.488	6	0.00	0.00	5	1.40	1.40	1.3	-	0.374
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			22.38	14.90		101.80	58.40		-			49.38	21.75		85.55	46.31		-	
Fisher's		Power	---		Power-50%		---	P-value		0.483	Power	0.105		Power-50%		0.049	P-value		0.309	Power	0.019		Power-50%		0.019	P-value		0.342
Stouffer's		Power	---		Power-50%		---	P-value		0.237	Power	0.043		Power-50%		0.112	P-value		0.184	Power	0.019		Power-50%		0.000	P-value		0.186

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

Table C-3.128. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Palmaria spp. (A) N	C	SE	N	O	SE	CV	D	P	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV	D	P	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00		-	1.000	6	0.00	0.00	5	0.00	0.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00		-	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.483	Power	---		Power-50%		---		P-value	0.698
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.237	Power	---		Power-50%		---		P-value	0.500
30196C/30196	2	6	1.17	0.75	6	0.00	0.00	0.9	+	0.180	6	15.00	13.65	6	105.33	104.93	1.2	-	0.974	6	101.00	101.00	6	8.17	8.17	1.3	+	0.904
31252C/31248	2	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000									
Habitat Means			0.29	0.19		0.00	0.00		+			3.75	3.41		26.33	26.23		-			25.25	25.25		2.04	2.04		+	
Fisher's		Power	0.013		Power-50%		0.020		P-value	0.345	Power	0.000		Power-50%		0.000		P-value	0.692	Power	---		Power-50%		---		P-value	0.676
Stouffer's		Power	0.002		Power-50%		0.003		P-value	0.140	Power	0.000		Power-50%		0.000		P-value	0.490	Power	---		Power-50%		---		P-value	0.462
30196C/30196	3	6	4.17	4.17	5	0.00	0.00	1.6	+	0.363	6	93.67	39.80	5	229.60	132.96	0.6	-	0.315	6	99.67	47.69	5	111.20	65.41	0.5	-	0.887
31252C/31248	3	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000
31252C/31252	3	6	0.00	0.00	5	0.00	0.00		-	1.000	6	0.00	0.00	5	1.40	1.40	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00		-	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00		-	1.000	4	0.00	0.00	6	0.00	0.00		-	1.000	4	0.00	0.00	6	0.00	0.00		-	1.000
Habitat Means			1.04	1.04		0.00	0.00		-			23.42	9.95		57.75	33.59		-			24.92	11.92		27.80	16.35		-	
Fisher's		Power	---		Power-50%		---		P-value	0.477	Power	0.047		Power-50%		0.006		P-value	0.278	Power	0.002		Power-50%		0.002		P-value	0.671
											Power	0.049		Power-50%		0.002		P-value	0.130	Power	0.000		Power-50%		0.011		P-value	0.455

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

Site Pair	MVD	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	Tokidadendron kurilensis (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	28.80	28.80	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00		-	1.000	6	5.33	5.33	5	0.00	0.00	1.6	-	0.643
31252C/31248	1	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	1.17	1.17	1.6	-	0.363
99826C/33141	1	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000
Habitat Means			0.00	0.00		7.20	7.20		-			0.00	0.00		0.00	0.00		o			1.33	1.33		0.29	0.29		-	
Fisher's		Power	---		Power-50%		---		P-value	0.483	Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.541 y
Stouffer's		Power	---		Power-50%		---		P-value	0.237	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.520
30196C/30196	2	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000	6	60.00	37.80	6	221.67	68.53	0.4	-	0.066
31252C/31248	2	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000	5	1.40	1.40	6	10.67	9.30	1.2	-	0.350
31252C/31252	2	5	0.00	0.00	6	0.00	0.00		-	1.000	5	0.00	0.00	6	0.00	0.00		-	1.000	5	1.40	1.40	6	2.00	1.81	1.0	-	0.805
99826C/33141	2	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000	6	43.84	43.43	6	0.34	0.34	1.4	-	0.183
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			26.66	21.01		58.67	19.99		-	
Fisher's		Power	---		Power-50%		---		P-value	0.698	Power	---		Power-50%		---		P-value	0.698	Power	0.044		Power-50%		0.044		P-value	0.137
Stouffer's		Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.500	Power	---		Power-50%		---		P-value	0.028
30196C/30196	3	6	0.83	0.83	5	0.40	0.40	1.1	+	0.672	6	0.50	0.50	5	26.80	26.80	1.2	-	0.736	6	0.33	0.33	5	157.00	114.89	0.9	-	0.093
31252C/31248	3	6	0.00	0.00	6	0.00	0.00		-	1.000	6	0.00	0.00	6	0.00	0.00		-	1.000	6	2.50	1.63	6	136.00	91.01	0.9	-	0.053
31252C/31252	3	6	0.00	0.00	5	0.00	0.00		-	1.000	6	0.00	0.00	5	0.00	0.00		-	1.000	6	2.50	1.63	5	36.80	36.80	1.2	-	0.984
99826C/33141	3	4	0.00	0.00	6	7.33	7.33	1.7	-	0.363	4	0.00	0.00	6	0.00	0.00		-	1.000	4	19.50	16.90	6	1.00	1.00	0.9	+	0.077
Habitat Means			0.21	0.21		1.93	1.93		-			0.13	0.13		6.70	6.70		-			6.21	5.12		82.70	60.92		-	
Fisher's		Power	---		Power-50%		---		P-value	0.536	Power	---		Power-50%		---		P-value	0.630	Power	---		Power-50%		---		P-value	0.061x
											Power	---		Power-50%		---		P-value	0.393	Power	---		Power-50%		---		P-value	0.016

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

Table C-3.128. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Dumontia contorta (AE) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	5.33	5.33	5	0.00	0.00	1.6	+	0.643
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	1.17	1.17	1.6	-	0.363
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			1.33	1.33		0.29	0.29		-	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.541 y
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.520
30196C/30196	2	6	0.00	0.00	6	0.83	0.83	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	56.00	36.44	6	15.17	14.19	0.8	-	0.321
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	1.6	-	0.363
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	1.33	1.33	1.6	-	0.363
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175
Habitat Means			0.00	0.00		0.21	0.21		-			0.00	0.00		0.00	0.00		o			14.00	9.11		4.13	3.88		-	
Fisher's		Power	---		Power-50%		---	P-value		0.582	Power	---		Power-50%		---	P-value		0.698	Power	0.005		Power-50%		0.005	P-value		0.315
Stouffer's		Power	---		Power-50%		---	P-value		0.253	Power	---		Power-50%		---	P-value		0.500	Power	0.003		Power-50%		0.053	P-value		0.440
30196C/30196	3	6	0.00	0.00	5	4.00	4.00	1.3	-	0.374	6	0.33	0.33	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	26.00	26.00	1.3	-	0.374
31252C/31248	3	6	0.00	0.00	6	6.50	4.79	1.0	-	0.233	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363
31252C/31252	3	6	0.00	0.00	5	3.00	3.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		3.38	2.95		-			0.08	0.08		0.00	0.00		-			0.00	0.00		6.58	6.58		-	
Fisher's		Power	0.005		Power-50%		---	P-value		0.134	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.299
Stouffer's		Power	---		Power-50%		---	P-value		0.056	Power	---		Power-50%		---	P-value		0.232	Power	---		Power-50%		---	P-value		0.127

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

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	4.00	4.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	84.67	43.03	0.7	-	0.106	6	0.00	0.00	6	84.67	43.03	0.7	-	0.106
31252C/31248	2	5	1.20	1.20	6	1.17	0.83	0.8	+	0.982	5	0.20	0.20	6	9.50	9.50	1.5	-	0.904	5	0.20	0.20	6	0.00	0.00	1.3	+	0.374
31252C/31252	2	5	1.20	1.20	6	0.50	0.50	1.0	+	0.579	5	0.20	0.20	6	0.00	0.00	1.3	-	0.374	5	0.20	0.20	6	0.00	0.00	1.3	+	0.374
99826C/33141	2	6	0.00	0.00	6	0.34	0.34	1.4	-	0.639	6	43.83	43.43	6	0.00	0.00	1.4	+	0.359	6	43.83	43.43	6	0.00	0.00	1.4	+	0.359
Habitat Means			1.60	1.60		0.50	0.42		+			11.06	10.96		23.54	13.13		-			11.06	10.96		21.17	10.76		+	
Fisher's		Power	0.007		Power-50%		.023	P-value		0.425	Power	0.002		Power-50%		0.003	P-value		0.408	Power	0.000		Power-50%		0.000	P-value		0.248 y
Stouffer's		Power	0.041		Power-50%		.214	P-value		0.182	Power	0.000		Power-50%		0.037	P-value		0.165	Power	0.000		Power-50%		0.027	P-value		0.692
30196C/30196	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	10.00	7.75	1.0	-	0.266	6	0.00	0.00	5	10.00	7.75	1.0	-	0.266
31252C/31248	3	6	0.00	0.00	6	1.67	1.48	1.3	-	0.310	6	2.50	1.63	6	127.50	87.35	1.0	-	0.193	6	2.50	1.63	6	7.00	5.88	0.9	-	0.478
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	2.50	1.63	5	23.40	23.40	1.2	-	0.802	6	2.50	1.63	5	23.40	23.40	1.2	-	0.802
99826C/33141	3	4	17.50	17.50	6	0.00	0.00	1.1	-	0.391	4	2.00	1.68	6	1.00	1.00	0.8	+	0.599	4	1.75	1.75	6	1.00	1.00	0.9	+	0.698
Habitat Means			4.38	4.38		0.42	0.37		-			1.75	1.23		40.48	29.87		-			1.69	1.25		10.35	9.51		-	
Fisher's		Power	0.000		Power-50%		---	P-value		0.544 y	Power	0.295		Power-50%		0.313	P-value		0.188	Power	0.119		Power-50%		0.119	P-value		0.296
Stouffer's		Power	0.000		Power-50%		---	P-value		0.340	Power	---		Power-50%		---	P-value		0.060	Power	---		Power-50%		---	P-value		0.099

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

Table C-3.128. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Ptilota sp. (P) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	9.50	9.50	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		2.38	2.38		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.336	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	37.60	37.60	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	6	120.50	89.06	1.0	-	0.234	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	9.80	9.80	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.25	0.25	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.06	0.06		30.13	22.27		-			0.00	0.00		11.85	11.85		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		---	P-value		0.484	Power	---		Power-50%		---	P-value		0.303	Power	---		Power-50%		---	P-value		0.698
Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	121.00	66.41	0.8	-	0.128	6	0.00	0.00	6	2.50	1.96	1.1	-	0.264	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.17	0.17	1.6	-	0.363	5	0.00	0.00	6	13.67	13.67	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		30.29	16.64		-			0.00	0.00		4.04	3.91		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.017		Power-50%		---	P-value		0.166	Power	0.011		Power-50%		---	P-value		0.249	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.061	Power	0.014		Power-50%		---	P-value		0.111	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	0.00	0.00	5	79.40	79.40	1.3	-	0.374	6	0.00	0.00	5	2.00	2.00	1.3	-	0.373	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.00	2.00	6	8.00	8.00	1.2	-	0.939	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	5	0.60	0.60	1.3	-	0.374	6	2.00	2.00	5	39.00	36.55	1.1	+	0.393	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	1.25	1.25	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		20.00	20.00		-			1.31	1.31		12.25	11.64		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.303	Power	0.003		Power-50%		---	P-value		0.381	Power	---		Power-50%		---	P-value		0.698
Power	---		Power-50%		---	P-value		0.151	Power	0.018		Power-50%		---	P-value		0.160	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Unidentified Red Fine Filaments N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	121.00	66.41	0.8	-	0.128	6	0.00	0.00	6	2.50	1.96	1.1	-	0.264	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	2	5	0.00	0.00	6	0.17	0.17	1.6	-	0.363	5	0.00	0.00	6	13.67	13.67	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		30.29	16.64		-			0.00	0.00		4.04	3.91		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.017		Power-50%		---	P-value		0.166	Power	0.011		Power-50%		---	P-value		0.249	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.061	Power	0.014		Power-50%		---	P-value		0.111	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	0.00	0.00	5	79.40	79.40	1.3	-	0.374	6	0.00	0.00	5	2.00	2.00	1.3	-	0.373	6	0.00	0.00	5	0.00	0.00	-	o	1.000
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.00	2.00	6	8.00	8.00	1.2	-	0.939	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	0.00	0.00	5	0.60	0.60	1.3	-	0.374	6	2.00	2.00	5	39.00	36.55	1.1	+	0.393	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	1.25	1.25	6	0.00	0.00	1.1	+	0.391	4	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		20.00	20.00		-			1.31	1.31		12.25	11.64		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.303	Power	0.003		Power-50%		---	P-value		0.381	Power	---		Power-50%		---	P-value		0.698
Power	---		Power-50%		---	P-value		0.151	Power	0.018		Power-50%		---	P-value		0.160	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.128. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	Audouinella purpurea (AE) N	C	SE	N	O	SE	CV	D	P	Callithamnion pikeanum (A) N	C	SE	N	O	SE	CV	D	P	Erythrotrichia sp. (AE) N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00		- o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31248	2	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	2	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00	0.8	-	0.178	6	0.00	0.00	5	0.00	0.00		- o	1.000
31252C/31248	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	3	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
99826C/33141	3	4	0.00	0.00	6	0.00	0.00		- o	1.000	4	0.00	0.00	6	0.00	0.00		- o	1.000	4	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	0.000		Power-50%		---	P-value		0.342	Power	---		Power-50%		---	P-value		0.698
[illegible]		Power			Power-50%		---	P-value		0.500	Power	0.000		Power-50%		---	P-value		0.139	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P	Tiffaniella snyderae (A) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
31252C/31248	1	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	1	5	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
99826C/33141	1	6	0.00	0.00	6	0.00	0.00		- o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
30196C/30196	2	6	0.00	0.00	6	2.50	1.96	1.1	-	0.264	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.83	0.54	6	44.50	30.80	1.0	-	0.727
31252C/31248	2	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000	5	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	2	5	0.00	0.00	6	13.67	13.67	1.6	-	0.363	5	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
99826C/33141	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000									
Habitat Means			0.00	0.00		4.04	3.91		-			0.00	0.00		0.00	0.00		o			0.21	0.14		11.13	7.70		-	
Fisher's		Power	0.011		Power-50%		---	P-value		0.249	Power	---		Power-50%		---	P-value		0.698	Power	0.013		Power-50%		0.013	P-value		0.627
Stouffer's		Power	0.013		Power-50%		---	P-value		0.111	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.002	P-value		0.389
30196C/30196	3	6	0.00	0.00	5	2.00	2.00	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00		o	1.000	6	16.33	16.13	5	143.20	113.48	0.9	-	0.308
31252C/31248	3	6	2.00	2.00	6	8.00	8.00	1.2	-	0.939	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
31252C/31252	3	6	2.00	2.00	5	39.00	36.55	1.1	-	0.393	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	1.80	1.80	1.3	-	0.374
99826C/33141	3	4	1.25	1.25	6	0.00	0.00	1.1	-	0.391	4	0.00	0.00	6	0.00	0.00		- o	1.000	4	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			1.31	1.31		12.25	11.64		-			0.00	0.00		0.00	0.00		o			4.08	4.03		36.25	28.82		-	
Fisher's		Power	0.006		Power-50%		---	P-value		0.381	Power	---		Power-50%		---	P-value		0.698	Power	0.005		Power-50%		0.005	P-value		0.275
Stouffer's		Power	0.021		Power-50%		---	P-value		0.160	Power	---		Power-50%		---	P-value		0.500	Power	0.005		Power-50%		0.000	P-value		0.128

(a) Genera not separated.

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

Table C-3.128. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Site Pair	MVD	*Total Halosaccion* (A) N	C	SE	N	O	SE	CV	D	P	*Halosaccion glandiformе* (A) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
31252C/31248	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	1	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		0.698	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
30196C/30196	2	6	0.83	0.54	6	44.50	30.80	1.0	-	0.727	6	0.83	0.54	6	44.50	30.80	1.0	-	0.727									
31252C/31248	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	2	5	0.00	0.00	6	0.00	0.00	-	o	1.000	5	0.00	0.00	6	0.00	0.00	-	o	1.000									
99826C/33141	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.21	0.14		11.13	7.70		-			0.21	0.14		11.13	7.70		-										
Fisher's		Power	0.015		Power-50%		0.009	P-value		0.627	Power	0.010		Power-50%		0.003	P-value		0.627	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.002		Power-50%		0.003	P-value		0.389	Power	0.002		Power-50%		0.001	P-value		0.389	Power	---		Power-50%		---	P-value		
30196C/30196	3	6	16.33	16.13	5	143.20	113.48	0.9	-	0.308	6	16.33	16.13	5	143.20	113.48	0.9	-	0.308									
31252C/31248	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
31252C/31252	3	6	0.00	0.00	5	1.80	1.80	1.3	-	0.374	6	0.00	0.00	5	1.80	1.80	1.3	-	0.374									
99826C/33141	3	4	0.00	0.00	6	0.00	0.00	-	o	1.000	4	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			4.08	4.03		36.25	28.82		-			4.08	4.03		36.25	28.82		-										
Fisher's		Power	0.004		Power-50%		0.000	P-value		0.275	Power	0.005		Power-50%		0.000	P-value		0.275	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.006		Power-50%		0.000	P-value		0.128	Power	0.005		Power-50%		0.000	P-value		0.128	Power	---		Power-50%		---	P-value		

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

Table C-3.129. Algal Biomass. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

Site Pair	MVD	Algal Taxa Richness (a) N	C	SE	N	O	SE	CV	D	P	Total Algae N	C	SE	N	O	SE	CV	D	P	Perenniale (P) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	1	3	1.00	0.00	3	4.00	2.08	0.6	-	0.286	3	1898.00	1347.12	3	5.68	3.85	1.0	+	0.086	3	1898.00	1347.12	3	3.00	2.52	1.0	+	0.059
Habitat Means			1.00	0.00		4.00	2.08		-			1898.00	1347.12		5.68	3.85		+			1898.00	1347.12		3.00	2.52		+	
Fisher's		Power ---			Power-50% ---		P-value ---			x	Power ---			Power-50% ---		P-value ---			x	Power ---			Power-50% ---		P-value ---			x
Stouffer's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	2	3	0.67	0.33	3	1.67	1.67	1.0	-	0.588	3	686.00	360.65	3	1.67	1.67	0.7	+	0.332	3	686.00	360.65	3	1.33	1.33	0.7	+	0.325
Habitat Means			0.67	0.33		1.67	1.67		-			686.00	360.65		1.67	1.67		+			686.00	360.65		1.33	1.33		+	
Fisher's		Power ---			Power-50% ---		P-value ---			x	Power ---			Power-50% ---		P-value ---			x	Power ---			Power-50% ---		P-value ---			x
Stouffer's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	3	0	--	--	3	1.00	1.00	-		---	0	--	--	3	78.33	78.33	-		---	0	--	--	3	1.33	1.33	-		---
Habitat Means			--	--		1.00	1.00					--	--		78.33	78.33					--	--		1.33	1.33			
Fisher's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			
Stouffer's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			

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

Site Pair	MVD	Annuals (A) N	C	SE	N	O	SE	CV	D	P	Ephemerals (AE) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
94935C/31288	1	3	0.00	0.00	3	2.68	1.46	0.8	-	0.208	3	0.00	0.00	3	0.67	0.34	0.7	-	0.184									
Habitat Means			0.00	0.00		2.68	1.46		-			0.00	0.00		0.67	0.34		-										
Fisher's		Power ---			Power-50% ---		P-value ---			x	Power ---			Power-50% ---		P-value ---			x	Power ---			Power-50% ---		P-value ---			
Stouffer's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
94935C/31288	2	3	0.00	0.00	3	0.34	0.34	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.34	0.34		-			0.00	0.00		0.00	0.00		o										
Fisher's		Power ---			Power-50% ---		P-value ---			x	Power ---			Power-50% ---		P-value ---			x	Power ---			Power-50% ---		P-value ---			
Stouffer's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
94935C/31288	3	0	--	--	3	77.00	77.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		77.00	77.00					--	--		0.00	0.00												
Fisher's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			
Stouffer's		Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---				Power ---			Power-50% ---		P-value ---			

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

Table C-3.130. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Total Chlorophyta									Morphological Group - Bladed Greens										Monostroma/Ulvaria (AE) (b)									
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	1	3	0.00	0.00	3	0.34	0.33	1.4	-	0.411	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.34	0.33		-			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00						--	--		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

(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.

		Total Ulva (AE)									Ulva spp. (AE)										Unidentified Green Blades									
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00						--	--		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

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

Table C-3.130. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens									Total Chaetomorpha/Rhizoclonium (A)										Chaetomorpha/Rhizoclonium spp. (A) (b)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	1	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423		3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	
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		---	x Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00						--	--		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

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

Site Pair	MVD	Cladophora sp. (AE)									Ulothrix sp. (AE)										Morphological Group - Tubular and Saccate Greens									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.34	0.33	1.4	-	0.417	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.34	0.33		-		
Fisher's		Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00						--	--		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

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

Table C-3.130. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
94935C/31288	1	3	0.00	0.00	3	0.34	0.33	1.4	-	0.417	3	0.00	0.00	3	0.34	0.33	1.4	-	0.417									
Habitat Means			0.00	0.00		0.34	0.33		-			0.00	0.00		0.34	0.33		-										
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value			
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value			
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value		---	z	Power	---		Power-50%	---	P-value			
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value			
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---									
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---									
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00												
Fisher's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value			
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value			

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.131. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Total Phaeophyta									Morphological Group - Bladed Browns										Unidentified Bladed Browns									
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**		**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	1	3	1898.00	1347.12	3	2.67	2.67	1.0	+	0.032	3	1898.00	1347.12	3	2.33	2.33	1.0	+	0.031		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			1898.00	1347.12		2.67	2.67		+			1898.00	1347.12		2.33	2.33		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power		---		Power-50%		---	P-value	---	x	Power		---		Power-50%		---	P-value	---	x	Power		---		Power-50%		---	P-value	---	x
Stouffer's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	2	3	686.00	360.65	3	0.67	0.67	0.7	+	0.303	3	686.00	360.65	3	0.33	0.33	0.7	+	0.283		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			686.00	360.65		0.67	0.67		+			686.00	360.65		0.33	0.33		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power		---		Power-50%		---	P-value	---	x	Power		---		Power-50%		---	P-value	---	x	Power		---		Power-50%		---	P-value	---	x
Stouffer's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	76.67	76.67	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		76.67	76.67					--	--		0.00	0.00						--	--		0.00	0.00				
Fisher's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	
Stouffer's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	

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

		Alaria sp. (A)									Fucus gardneri (P)										Laminaria sp. (P)									
Site Pair	**MVD**	**N**	**C**	**E**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**		**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	1898.00	1347.12	3	2.33	2.33	1.0	+	0.031		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			1898.00	1347.12		2.33	2.33		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power		---		Power-50%		---	P-value	---	x	Power		---		Power-50%		---	P-value	---	x	Power		---		Power-50%		---	P-value	---	x
Stouffer's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	686.00	360.65	3	0.33	0.33	0.7	+	0.283		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			686.00	360.65		0.33	0.33		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power		---		Power-50%		---	P-value	---	x	Power		---		Power-50%		---	P-value	---	x	Power		---		Power-50%		---	P-value	---	x
Stouffer's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00						--	--		0.00	0.00				
Fisher's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	
Stouffer's		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---		Power		---		Power-50%		---	P-value	---	

x At least one site pair p-value < 0.100 in 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 C 3 131. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1989. (Continued.)

		Morphological Group - Coarse Filamentous Browns									Chordaria flagelliformis (A)									Desmarestia sp. (A)								
4	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
94935C/31288	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	3	0	--	--	3	76.67	76.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	76.67	76.67	-		---
Habitat Means			--	--		76.67	76.67					--	--		0.00	0.00					--	--		76.67	76.67			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	

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

		Myelophycus/Scytosiphon (A) (a)									Morphological Group - Fine Filamentous Browns									Pilayella sp. (AE)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.33	0.33	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.33	0.33		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	

(a) Genera not separated.

x At least one site pair p-value < 0.100 in 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 C 3.131. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
94935C/31288	1	3	0.00	0.00	3	0.33	0.33	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.33	0.33		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.33	0.33	1.4	-	0.423	3	0.00	0.00	3	0.33	0.33	1.4	-	0.423	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.33	0.33		-			0.00	0.00		0.33	0.33		-		
Fisher's		Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	

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

Site Pair	MVD	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	0	--	--	0	--	--	-		---																			
94935C/31288	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000																			
Habitat Means			0.00	0.00		0.00	0.00		o																				
Fisher's		Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
13.1C/13.1	2	0	--	--	0	--	--	-		---																			
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000																			
Habitat Means			0.00	0.00		0.00	0.00		o																				
Fisher's		Power	---		Power-50%		---	P-value		---	x Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
13.1C/13.1	3	0	--	--	0	--	--	-		---																			
94935C/31288	3	0	--	--	3	0.00	0.00	-		---																			
Habitat Means			--	--		0.00	0.00																						
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value			

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

Table C-3.132. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1989.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Total Rhodophyta									Morphological Group - Bladed Reds										Unidentified Red Blades									
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
94935C/31288	1	3	0.00	0.00	3	2.67	1.45	0.8	-	0.208		3	0.00	0.00	3	0.67	0.33	0.7	-	0.184		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		2.67	1.45		-				0.00	0.00		0.67	0.33		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	2	3	0.00	0.00	3	1.00	1.00	1.4	-	0.423		3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		1.00	1.00		-				0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	1.67	1.67	-		---		0	--	--	3	0.33	0.33	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		1.67	1.67						--	--		0.33	0.33						--	--		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

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

		Neodilsea sp. (A)									Gigartinaceae Group (P) (a)										Total Palmaria (A)									
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x	Power	---		Power-50%		---	P-value		---	x
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	0.33	0.33	-		---		0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		0.33	0.33						--	--		0.00	0.00						--	--		0.00	0.00				
Fisher's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.132. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV	D	P	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV		P	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P	
94935C/31288	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.67	0.33	0.7	-	0.184	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.67	0.33		-		
Fisher's		Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00				
Fisher's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

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

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
94935C/31288	1	3	0.00	0.00	3	1.00	0.58	0.8	-	0.225	3	0.00	0.00	3	0.33	0.33	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		1.00	0.58		-			0.00	0.00		0.33	0.33		-			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
94935C/31288	2	3	0.00	0.00	3	1.00	1.00	1.4	-	0.423	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		1.00	1.00		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	1.33	1.33	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		1.33	1.33					--	--		0.00	0.00					--	--		0.00	0.00				
Fisher's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

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

Table C-3.132. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.33	0.33	1.4	-	0.423	3	0.00	0.00	3	0.33	0.33	1.4	-	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.33	0.33		-			0.00	0.00		0.33	0.33		-	
Fisher's		Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	1.33	1.33	-		---	0	--	--	3	1.33	1.33	-		---
Habitat Means			--	--		0.00	0.00					--	--		1.33	1.33					--	--		1.33	1.33			
Fisher's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

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

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.33	0.33	1.4	-	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.33	0.33		-	
Fisher's		Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.67	0.67	1.4	-	0.423	3	0.00	0.00	3	0.33	0.33	1.4	-	0.423
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.67	0.67		-			0.00	0.00		0.33	0.33		-	
Fisher's		Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x	Power	---		Power-50%	---	P-value		---	x
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	
Stouffer's		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---		Power	---		Power-50%	---	P-value		---	

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

Table C-3.132. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1989. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Reds									Antithamnion/Antithamnionella (A) (b)										Polysiphonia/Pterosiphonia (A) (a)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	1	3	0.00	0.00	3	1.00	1.00	1.4	-	0.421	3	0.00	0.00	3	0.00	0.00	1.4	-	0.423		3	0.00	0.00	3	1.00	1.00	1.4	-	0.423	
Habitat Means			0.00	0.00		1.00	1.00		-			0.00	0.00		0.00	0.00		-				0.00	0.00		1.00	1.00		-		
Fisher's		Power	---		Power-50%	---		P-value	---	x	Power	---		Power-50%	---		P-value	---	x		Power	---		Power-50%	---		P-value	---	x	
Stouffer's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---			Power	---		Power-50%	---		P-value	---		
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---		P-value	---	x	Power	---		Power-50%	---		P-value	---	x		Power	---		Power-50%	---		P-value	---	x	
Stouffer's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---			Power	---		Power-50%	---		P-value	---		
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00						--	--		0.00	0.00				
Fisher's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---			Power	---		Power-50%	---		P-value	---		
Stouffer's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---			Power	---		Power-50%	---		P-value	---		

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

Site Pair	MVD	Morphological Group - Saccate Reds									Total Halosaccion (A)										Halosaccion glandiforme (A)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---		P-value	---	x	Power	---		Power-50%	---		P-value	---	x		Power	---		Power-50%	---		P-value	---	x	
Stouffer's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---			Power	---		Power-50%	---		P-value	---		
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	2	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---		P-value	---	x	Power	---		Power-50%	---		P-value	---	x		Power	---		Power-50%	---		P-value	---	x	
Stouffer's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---			Power	---		Power-50%	---		P-value	---		
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
94935C/31288	3	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00						--	--		0.00	0.00				
Fisher's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---			Power	---		Power-50%	---		P-value	---		
Stouffer's		Power	---		Power-50%	---		P-value	---		Power	---		Power-50%	---		P-value	---			Power	---		Power-50%	---		P-value	---		

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

Table C-3.133. Algal Biomass. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Algal Taxa Richness (a)									Total Algae									Perennials (P)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.33	0.21	6	0.00	0.00	0.9	+	0.175	6	253.33	205.76	6	0.00	0.00	1.1	+	0.273	6	253.33	205.76	6	0.00	0.00	1.1	+	0.273
Habitat Means			0.17	0.11		0.00	0.00		+			126.67	102.88		0.00	0.00		+			126.67	102.88		0.00	0.00		+	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.180	Power	0.005		Power-50%		0.003	P-value		0.252	Power	0.009		Power-50%		0.009	P-value		0.252
Stouffer's		Power	---		Power-50%		0.000	P-value		0.088	Power	0.001		Power-50%		0.002	P-value		0.137	Power	0.002		Power-50%		0.003	P-value		0.137
13.1C/13.1	2	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363
94935C/31288	2	6	1.00	0.45	6	0.00	0.00	0.6	+	0.076	6	1556.50	849.87	6	0.00	0.00	0.8	+	0.127	6	1556.17	849.70	6	0.00	0.00	0.8	+	0.127
Habitat Means			0.50	0.22		0.08	0.08		+			778.25	424.94		0.17	0.17		+			778.08	424.85		0.17	0.17		+	
Fisher's		Power	0.271		Power-50%		0.150	P-value		0.139	Power	0.006		Power-50%		0.002	P-value		0.205	Power	0.005		Power-50%		0.005	P-value		0.205
Stouffer's		Power	---		Power-50%		0.104	P-value		0.043	Power	---		Power-50%		---	P-value		0.071	Power	---		Power-50%		---	P-value		0.071
13.1C/13.1	3	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.83	0.83	6	0.00	0.00	1.4	+	0.363	6	0.83	0.83	6	0.00	0.00	1.4	+	0.363
94935C/31288	3	6	0.33	0.21	6	0.33	0.33	0.8	o	1.000	6	1655.17	1315.96	6	526.00	526.00	0.9	+	0.444	6	1655.17	1315.96	6	526.00	526.00	0.9	+	0.444
Habitat Means			0.25	0.19		0.17	0.17		+			828.00	658.40		263.00	263.00		+			828.00	658.40		263.00	263.00		+	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.309	Power	0.064		Power-50%		0.094	P-value		0.170	Power	0.058		Power-50%		0.058	P-value		0.170
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.477	Power	0.130		Power-50%		0.194	P-value		0.206	Power	0.123		Power-50%		0.192	P-value		0.206

(a) 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.

		Annuals (A)									Ephemerals (AE)																	
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
94935C/31288	2	6	0.33	0.33	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.17	0.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

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

Table C-3.134. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Total Chlorophyta									Morphological Group - Bladed Greens									Monostroma/Ulvaria (AE) (b)								
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500

(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.

		Total Ulva (AE)									Ulva spp. (AE)									Unidentified Green Blades								
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500

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

Table C-3.134. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens									Total Chaetomorpha/Rhizoclonium (A)										Chaetomorpha/Rhizoclonium spp. (A) (b)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597		Power	---		Power-50%		---	P-value		0.597	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597		Power	---		Power-50%		---	P-value		0.597	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597		Power	---		Power-50%		---	P-value		0.597	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	

(b) Chaetomorpha melagonium not included.
x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of ove[illegible]
z Only one site pair.

Site Pair	MVD	Cladophora sp. (AE)									Ulothrix sp. (AE)										Morphological Group - Tubular and Saccate Greens									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597		Power	---		Power-50%		---	P-value		0.597	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597		Power	---		Power-50%		---	P-value		0.597	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597		Power	---		Power-50%		---	P-value		0.597	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500		Power	---		Power-50%		---	P-value		0.500	

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

Table C-3.134. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

		Total Blidingia/Enteromorpha (AE)									Blidingia/Enteromorpha spp. (AE) (b)																				
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000											
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000											
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o												
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value				
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value				
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000											
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000											
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o												
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value				
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value				
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000											
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000											
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o												
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value				
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value				

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.135. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Total Phaeophyta									Morphological Group - Bladed Browns									Unidentified Bladed Browns								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	253.33	205.76	6	0.00	0.00	1.1	+	0.273	6	253.33	205.76	6	0.00	0.00	1.1	+	0.273	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			126.67	102.88		0.00	0.00		+			126.67	102.88		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.006		Power-50%		0.006	P-value		0.252	Power	0.007		Power-50%		0.008	P-value		0.252	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.002		Power-50%		0.001	P-value		0.137	Power	0.002		Power-50%		0.002	P-value		0.137	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	1556.33	849.79	6	0.00	0.00	0.8	+	0.127	6	1556.17	849.70	6	0.00	0.00	0.8	+	0.127	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			778.17	424.89		0.00	0.00		+			778.08	424.85		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.009		Power-50%		0.005	P-value		0.141	Power	0.010		Power-50%		0.005	P-value		0.141	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		0.001	P-value		0.064	Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.83	0.83	6	0.00	0.00	1.4	+	0.363	6	0.83	0.83	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	1655.17	1315.96	6	5.17	5.17	1.1	+	0.402	6	1655.17	1315.96	6	5.17	5.17	1.1	+	0.402	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			828.00	658.40		2.58	2.58		+			828.00	658.40		2.58	2.58		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.139		Power-50%		0.088	P-value		0.157	Power	0.143		Power-50%		0.076	P-value		0.157	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.267		Power-50%		0.191	P-value		0.186	Power	0.263		Power-50%		0.188	P-value		0.186	Power	---		Power-50%		---	P-value		0.500

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

		Alaria sp. (A)									Fucus gardneri (P)									Laminaria sp. (P)								
Site Pair	MVD	N	C	E	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	E	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	253.33	205.76	6	0.00	0.00	1.1	+	0.273	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			126.67	102.88		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	0.008		Power-50%		0.001	P-value		0.252	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.002		Power-50%		0.000	P-value		0.137	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1556.17	849.70	6	0.00	0.00	0.8	+	0.127	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			778.08	424.85		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	0.011		Power-50%		0.008	P-value		0.141	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.83	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1655.17	1315.96	6	5.17	5.17	1.1	+	0.402	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			828.00	658.40		2.58	2.58		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	0.146		Power-50%		0.087	P-value		0.157	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.269		Power-50%		0.171	P-value		0.186	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.135. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Browns									Chordaria flagelliformis (A)										Desmarestia sp. (A)									
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597		Power	---		Power-50%	---	P-value			0.597	
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500		Power	---		Power-50%	---	P-value			0.500	
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
94935C/31288	2	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.08	0.08		0.00	0.00		+			0.08	0.08		0.00	0.00		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value			0.309	Power	---		Power-50%	---	P-value			0.309		Power	---		Power-50%	---	P-value			0.597	
Stouffer's		Power	---		Power-50%	---	P-value			0.182	Power	---		Power-50%	---	P-value			0.182		Power	---		Power-50%	---	P-value			0.500	
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597		Power	---		Power-50%	---	P-value			0.597	
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500		Power	---		Power-50%	---	P-value			0.500	

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

Site Pair	MVD	Myelophycus/Scytosiphon (A) (a)									Morphological Group - Fine Filamentous Browns										Pilayella sp. (AE)									
		N		SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597		Power	---		Power-50%	---	P-value			0.597	
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500		Power	---		Power-50%	---	P-value			0.500	
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597		Power	---		Power-50%	---	P-value			0.597	
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500		Power	---		Power-50%	---	P-value			0.500	
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000		6	0.00	0.00	6	0.00	0.00	-	o	1.000	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597		Power	---		Power-50%	---	P-value			0.597	
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500		Power	---		Power-50%	---	P-value			0.500	

(a) Genera not separated.

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

Table C-3.135. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	*Sphacelaria sp. (AE)* N	C	SE	N	O	SE	CV	D	P	*Morphological Group - Saccate Browns* N	C	SE	N	O	SE	CV	D	P	*Leathesia difformis (A)* N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		*0.500*	Power	---		Power-50%		---	P-value		*0.500*	Power	---		Power-50%		---	P-value		*0.500*
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	*Soranthera ulvoidea (A)* N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000																		
Habitat Means			0.00	0.00		0.00	0.00		o																			
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value		

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

Table C-3.136. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. July 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Total Rhodophyta									Morphological Group - Bladed Reds									Unidentified Red Blades								
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value	0.597		Power	---		Power-50%	---		P-value	0.597		Power	---		Power-50%	---		P-value	0.597	
Stouffer's		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500	
13.1C/13.1	2	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.08	0.08		0.17	0.17		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value	0.432		Power	---		Power-50%	---		P-value	0.597		Power	---		Power-50%	---		P-value	0.597	
Stouffer's		Power	---		Power-50%	---		P-value	0.802		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500	
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	520.83	520.83	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		260.42	260.42		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value	0.309		Power	---		Power-50%	---		P-value	0.597		Power	---		Power-50%	---		P-value	0.597	
Stouffer's		Power	---		Power-50%	---		P-value	0.182		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500	

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

		Neodilsea sp. (A)									Gigartinaceae Group (P) (a)									Total Palmaria (A)								
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value	0.597		Power	---		Power-50%	---		P-value	0.597		Power	---		Power-50%	---		P-value	0.597	
Stouffer's		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500	
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value	0.597		Power	---		Power-50%	---		P-value	0.597		Power	---		Power-50%	---		P-value	0.597	
Stouffer's		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500	
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---		P-value	0.597		Power	---		Power-50%	---		P-value	0.597		Power	---		Power-50%	---		P-value	0.597	
Stouffer's		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500		Power	---		Power-50%	---		P-value	0.500	

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.136. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV	D	P	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.17	0.17		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	520.83	520.83	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		260.42	260.42		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.136. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	520.83	520.83	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		260.42	260.42		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.33	0.33	1.4	-	0.363
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.17	0.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.477
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	520.83	520.83	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		260.42	260.42		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.136. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Antithamnion/Antithamnionella (A) (b) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.08	0.08		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.08	0.08		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.182
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion glandiforme (A) ..	.	..	..	.	..	CV	.	.
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.137. Algal Biomass. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. September 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Algal Taxa Richness (a)								Total Algae								Perennials (P)							
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
13.1C/13.1	1	6	0.00	0.00	5	0.40	0.40	1.5	-	0.374	6	0.00	0.00	5	37.80	37.80	1.5	-	0.374	6	0.00	0.00	5	37.80	37.80	1.5	-	0.374
94935C/31288	1	6	1.17	0.48	6	2.17	1.33	0.6	-	0.495	6	891.17	361.36	6	6.34	5.18	0.6	+	0.239	6	888.33	360.94	6	4.33	3.75	0.6	+	0.209
Habitat Means			0.58	0.24		1.28	0.86		-			445.58	180.68		32.07	31.49		+			444.17	180.47		31.07	30.77		+	
Fisher's		Power	0.066		Power-50%		0.152	P-value		0.188	Power	0.164		Power-50%		0.143	P-value		0.323	Power	0.121		Power-50%		0.121	P-value		0.295
Stouffer's		Power	0.111		Power-50%		0.095	P-value		0.230	Power	0.049		Power-50%		0.091	P-value		0.132	Power	0.029		Power-50%		0.079	P-value		0.116
13.1C/13.1	2	6	1.17	1.17	6	0.00	0.00	1.4	+	0.363	6	17.84	17.84	6	0.00	0.00	1.4	+	0.363	6	7.67	7.67	6	0.00	0.00	1.4	+	0.363
94935C/31288	2	6	1.00	0.52	6	1.67	1.09	0.6	-	0.591	6	270.67	165.12	6	7.50	4.76	0.8	+	0.438	6	270.67	165.12	6	2.50	1.59	0.9	+	0.377
Habitat Means			1.08	0.84		0.83	0.54		+			144.25	91.48		3.75	2.38		+			139.17	86.40		1.25	0.79		+	
Fisher's		Power	0.051		Power-50%		0.215	P-value		0.391	Power	0.324		Power-50%		0.104	P-value		0.168	Power	0.383		Power-50%		0.383	P-value		0.150
Stouffer's		Power	0.063		Power-50%		0.273	P-value		0.684	Power	0.441		Power-50%		0.198	P-value		0.203	Power	0.494		Power-50%		0.185	P-value		0.174
13.1C/13.1	3	6	1.33	0.71	6	0.17	0.17	0.7	+	0.167	6	70.17	63.30	6	0.50	0.50	1.3	+	0.191	6	69.50	63.43	6	0.50	0.50	1.3	+	0.197
94935C/31288	3	6	1.00	0.45	6	0.00	0.00	0.6	+	0.076	6	1251.50	798.53	6	0.00	0.00	0.9	+	0.178	6	1251.50	798.53	6	0.00	0.00	0.9	+	0.178
Habitat Means			1.17	0.58		0.08	0.08		+			660.83	430.91		0.25	0.25		+			660.50	430.98		0.25	0.25		+	
Fisher's		Power	---		Power-50%		---	P-value		0.021	Power	---		Power-50%		---	P-value		0.049	Power	---		Power-50%		---	P-value		0.050
Stouffer's		Power	---		Power-50%		0.505	P-value		0.031	Power	---		Power-50%		---	P-value		0.077	Power	---		Power-50%		---	P-value		0.077

(a) 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.

		Annuals (A)								Ephemerals (AE)															
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000									
94935C/31288	1	6	2.83	2.01	6	2.01	1.49	0.7	+	0.748	6	0.00	0.00	6	0.84	0.54	0.9	-	0.185									
Habitat Means			1.42	1.00		1.00	0.74		+			0.00	0.00		0.42	0.27		-										
Fisher's		Power	0.010		Power-50%		0.021	P-value		0.501	Power	0.071		Power-50%		---	P-value		0.188	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.004		Power-50%		0.005	P-value		0.375	Power	---		Power-50%		---	P-value		0.093	Power	---		Power-50%		---	P-value		
13.1C/13.1	2	6	10.17	10.17	6	0.00	0.00	1.4	+	0.363	6	8.00	8.00	6	0.00	0.00	1.4	+	0.363									
94935C/31288	2	6	0.00	0.00	6	5.00	3.21	0.9	-	0.179	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363									
Habitat Means			5.08	5.08		2.50	1.60		-			4.00	4.00		0.08	0.08		+										
Fisher's		Power	0.044		Power-50%		---	P-value		0.265 y	Power	---		Power-50%		---	P-value		0.432	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.100	Power	---		Power-50%		---	P-value		0.802	Power	---		Power-50%		---	P-value		
13.1C/13.1	3	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363									
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.33	0.33		0.00	0.00		+			0.33	0.33		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		

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

Table C-3.138. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Total Chlorophyta									Morphological Group - Bladed Greens									Monostroma/Ulvaria (AE) (b)								
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.84	0.54	0.9	-	0.185	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.42	0.27		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.075		Power-50%		---	P-value		0.188	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.093	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	8.00	8.00	6	0.00	0.00	1.4	+	0.363	6	8.00	8.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			4.00	4.00		0.08	0.08		+			4.00	4.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.432	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.802	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.33	0.33		0.00	0.00		+			0.33	0.33		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.500

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

		Total Ulva (AE)									Ulva spp. (AE)									Unidentified Green Blades								
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	8.00	8.00	6	0.00	0.00	1.4	+	0.363	6	8.00	8.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			4.00	4.00		0.00	0.00		+			4.00	4.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.33	0.33		0.00	0.00		+			0.33	0.33		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.138. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens N	C	SE	N	O	SE	CV	D	P	Total Chaetomorpha/Rhizoclonium (A) N	C	SE	N	O	SE	CV	D	P	Chaetomorpha/Rhizoclonium spp. (A) (b) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.84	0.54	0.9	-	0.185	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.42	0.27		-			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		-	
Fisher's		Power	0.073		Power-50%		---	P-value		0.188	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.093	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Cladophora sp. (AE) N	C	SE	N	O	SE	CV	D	P	Ulothrix sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Tubular and Saccate Greens N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.83	0.54	0.9	-	0.185	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.42	0.27		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.073		Power-50%		---	P-value		0.189	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.093	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.08	0.08		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.138. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Site Pair	MVD	Total Blidingia/Enteromorpha (AE) N	C	SE	N	O	SE	CV	D	P	Blidingia/Enteromorpha spp. (AE) (b) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	*0.00*	*0.00*	5	*0.00*	*0.00*	-	o	*1.000*	6	*0.00*	*0.00*	5	*0.00*	*0.00*	-	o	*1.000*									
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		*Power*	---		*Power-50%*		---	*P-value*		0.597	*Power*	---		*Power-50%*		---	*P-value*		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.139. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Total Phaeophyta								*Morphological Group - Bladed Browns*								*Unidentified Bladed Browns*							
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
13.1C/13.1	1	6	0.00	0.00	5	56.60	56.60	1.3	-	0.374	6	0.00	0.00	5	56.60	56.60	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
94935C/31288	1	6	886.50	361.08	6	5.17	4.58	0.6	+	0.213	6	886.50	361.08	6	4.17	3.58	0.6	+	0.209	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			443.25	180.54		30.88	30.59		+			443.25	180.54		30.38	30.09		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.108		Power-50%		0.154	P-value		0.299	Power	0.125		Power-50%		0.141	P-value		0.294	Power	---		Power-50%		---	P-value		0.597
Stouffer's		*Power*	*0.031*		*Power-50%*		*0.094*	*P-value*		*0.118*	*Power*	*0.037*		*Power-50%*		*0.092*	*P-value*		*0.115*	*Power*	---		*Power-50%*		---	*P-value*		*0.500*
13.1C/13.1	2	6	5.17	5.17	6	0.00	0.00	1.4	+	0.363	6	4.83	4.83	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	257.50	165.91	6	1.67	1.09	0.9	+	0.368	6	257.50	165.91	6	1.67	1.09	0.9	+	0.368	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			131.33	85.54		0.83	0.54		+			131.17	85.37		0.83	0.54		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.249		Power-50%		0.062	P-value		0.147	Power	0.257		Power-50%		0.063	P-value		0.147	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.387		Power-50%		0.126	P-value		0.170	Power	0.401		Power-50%		0.136	P-value		0.170	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	65.00	58.94	6	0.00	0.00	1.3	+	0.320	6	65.00	58.94	6	0.00	0.00	1.3	+	0.320	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	1228.67	780.07	6	0.00	0.00	0.9	+	0.176	6	1228.67	780.07	6	0.00	0.00	0.9	+	0.176	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			646.83	419.51		0.00	0.00		+			646.83	419.51		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.074	Power	---		Power-50%		---	P-value		0.074	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		0.119	P-value		0.079	Power	---		Power-50%		---	P-value		0.079	Power	---		Power-50%		---	P-value		---

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

		Alaria sp. (A)								*Fucus gardneri (F)*								*Laminaria sp. (P)*							
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	56.60	56.60	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	886.50	361.08	6	4.17	3.58	0.6	+	0.209	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			443.25	180.54		30.38	30.09		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	0.128		Power-50%		0.129	P-value		0.294	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.035		Power-50%		0.077	P-value		0.115	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.83	4.83	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	257.50	165.91	6	1.67	1.09	0.9	+	0.368	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			131.17	85.37		0.83	0.54		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	0.251		Power-50%		0.055	P-value		0.147	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.391		Power-50%		0.111	P-value		0.170	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	64.33	59.08	6	0.00	0.00	1.3	+	0.326	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1228.67	780.07	6	0.00	0.00	0.9	+	0.176	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			646.50	419.58		0.00	0.00		+			0.33	0.33		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.075	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.079	Power	---		Power-50%		---	P-value		---

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

Table C-3.139. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

		Morphological Group - Coarse Filamentous Browns									Chordaria flagelliformis (A)									Desmarestia sp. (A)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.33	0.33	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.33	0.33	6	0.00	0.00	1.4	+	0.363
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.17	0.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.17	0.17		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.432	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.432
Stouffer's		Power	---		Power-50%		---	P-value		0.802	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.802
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

		Myelophycus/Scytosiphon (A) (a)									Morphological Group - Fine Filamentous Browns									Pilayella sp. (AE)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.00	0.00	5	0.00	0.00		- o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

(a) Genera not separated.

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

Table C-3.139. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	1.00	1.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		-			0.00	0.00		0.50	0.50		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value	0.309			Power ---			Power-50%	---	P-value	0.309			Power ---			Power-50%	---	P-value	0.597		
Stouffer's		Power ---			Power-50%	---	P-value	0.182			Power ---			Power-50%	---	P-value	0.182			Power ---			Power-50%	---	P-value	0.500		
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value	0.597			Power ---			Power-50%	---	P-value	0.597			Power ---			Power-50%	---	P-value	0.597		
Stouffer's		Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500		
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value	0.597			Power ---			Power-50%	---	P-value	0.597			Power ---			Power-50%	---	P-value	0.597		
Stouffer's		Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500			Power ---			Power-50%	---	P-value	0.500		

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

Site Pair	MVD	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P
94935C/31288	1	6	0.00	0.00	6	1.00	1.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.50	0.50		-	
Fisher's		Power ---			Power-50%	---	P-value	0.309		
Stouffer's		Power ---			Power-50%	---	P-value	0.182		
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value	0.597		
Stouffer's		Power ---			Power-50%	---	P-value	0.500		
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%	---	P-value	0.597		
Stouffer's		Power ---			Power-50%	---	P-value	0.500		

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

Table C-3.140. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1990.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

Site Pair	MVD	Total Rhodophyta N	C	SE	N	O	SE	CV	D	P	Morphological Group - Bladed Reds N	C	SE	N	O	SE	CV	D	P	Unidentified Red Blades N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	5	1.20	1.20	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
94935C/31288	1	6	4.67	3.76	6	0.34	0.33	1.1	+	0.667	6	1.83	1.83	6	0.00	0.00	1.4	+	0.858	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			2.33	1.98		0.77	0.77		-			0.92	0.92		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.001		Power-50%		0.006	P-value		0.384 y	Power	0.010		Power-50%		---	P-value		0.545	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.008		Power-50%		0.000	P-value		0.645	Power	0.009		Power-50%		---	P-value		0.430	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	4.67	4.67	6	0.00	0.00	1.4	+	0.363	6	1.83	1.83	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	13.17	9.24	6	5.67	3.59	0.7	+	0.467	6	13.17	9.24	6	2.00	1.37	0.9	+	0.865	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			8.92	6.95		2.83	1.80		+			7.50	5.54		1.00	0.68		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.108		Power-50%		0.166	P-value		0.176	Power	0.186		Power-50%		0.156	P-value		0.278	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.162		Power-50%		0.271	P-value		0.217	Power	0.267		Power-50%		0.243	P-value		0.410	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	4.50	4.50	6	0.50	0.50	1.3	+	0.682	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	22.83	22.83	6	0.00	0.00	1.4	+	0.363	6	10.33	10.33	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			13.67	13.67		0.25	0.25		+			5.17	5.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.003		Power-50%		0.005	P-value		0.234	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.012		Power-50%		0.015	P-value		0.175	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Neodilsea sp. (A) N	C	SE	N	O	SE	CV	D	P	Gigartinaceae Group (P) (a) N	C	SE	N	O	SE	CV	D	P	Total Palmaria (A) N	C	SE	N		CV	D	P
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.83	1.83	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.92	0.92		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.83	1.83	6	0.00	0.00	1.4	+	0.363
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	13.17	9.24	6	0.67	0.67	0.9	+	0.456	6	0.00	0.00	6	1.33	1.33	1.4	-	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			6.58	4.62		0.33	0.33		+			0.92	0.92		0.67	0.67		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	0.048		Power-50%		0.025	P-value		0.362	Power	---		Power-50%		---	P-value		0.432
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.024		Power-50%		0.005	P-value		0.229	Power	---		Power-50%		---	P-value		0.802
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	10.33	10.33	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			5.17	5.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500

(a) Encrusted, filamen, Ahnfeltiopsis 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-3.140. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Site Pair	MVD	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV	D	P	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.9	-	0.175
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	0.104		Power-50%	0.104	P-value			0.180
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.088
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.83	1.83	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	1.33	1.33	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
Habitat Means			0.00	0.00		0.67	0.67		-			0.92	0.92		0.00	0.00		+			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%	---	P-value			0.309	Power	---		Power-50%	---	P-value			0.309	Power	---		Power-50%	---	P-value			0.309
Stouffer's		Power	---		Power-50%	---	P-value			0.182	Power	---		Power-50%	---	P-value			0.477	Power	---		Power-50%	---	P-value			0.182
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.597
Stouffer's		Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.500

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

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	5	1.20	1.20	1.3	-	0.374	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363
Habitat Means			0.00	0.00		0.68	0.68		-			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-	
Fisher's		Power	---		Power-50%	---	P-value			0.149	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.309
Stouffer's		Power	---		Power-50%	---	P-value			0.168	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.182
13.1C/13.1	2	6	2.84	2.84	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.17	0.17	1.4	-	0.665	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
Habitat Means			1.42	1.42		0.08	0.08		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%	---	P-value			0.377	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.309
Stouffer's		Power	---		Power-50%	---	P-value			0.646	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.182
13.1C/13.1	3	6	4.50	4.50	6	0.50	0.50	1.3	+	0.682	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	2.67	2.67	6	0.00	0.00	1.4	+	0.363
94935C/31288	3	6	12.50	12.50	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	12.50	12.50	6	0.00	0.00	1.4	+	0.363
Habitat Means			8.50	8.50		0.25	0.25		+			0.00	0.00		0.00	0.00		o			7.58	7.58		0.00	0.00		+	
Fisher's		Power	0.002		Power-50%	0.006	P-value			0.234	Power	---		Power-50%	---	P-value			0.597	Power	---		Power-50%	---	P-value			0.146
Stouffer's		Power	0.013		Power-50%	0.020	P-value			0.175	Power	---		Power-50%	---	P-value			0.500	Power	---		Power-50%	---	P-value			0.167

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

Table C-3.140. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Site Pair	MVD	Gloiopeltis furcata (A) N	C	SE	N	O	SE	CV	D	P	Total Neorhodomela/Rhodomela (P) N	C	SE	N	O	SE	CV	D	P	Neorhodomela/Rhodomela spp. (P) (b) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.83	0.83	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.42	0.42		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	1.83	1.83	6	0.50	0.50	1.2	+	0.499	6	1.83	1.83	6	0.50	0.50	1.2	+	0.499
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.92	0.92		0.25	0.25		+			0.92	0.92		0.25	0.25		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.384	Power	---		Power-50%		---	P-value		0.384
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.483	Power	---		Power-50%		---	P-value		0.483

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

Site Pair	MVD	Neorhodomela larix (P) N	C	SE	N	O	SE	CV	D	P	Neoptilota asplenioides (P) N	C	SE	N	O	SE	CV	D	P	Odonthalia floccosa (P) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	1.20	1.20	1.3	-	0.374
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.60	0.60		-	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.315
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.477
13.1C/13.1	2	6	0.83	0.83	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	2.00	2.00	6	0.00	0.00	1.4	+	0.363
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363
Habitat Means			0.42	0.42		0.00	0.00		+			0.00	0.00		0.00	0.00		+			1.00	1.00		0.08	0.08		+	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.432
Stouffer's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.802
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
94935C/31288	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.477

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

Table C-3.140. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Site Pair	MVD	Morphological Group - *Fine Filamentous Reds* N	C	SE	N	O	SE	CV	D	P	*Antithamnion/Antithamnionella (A) (b)* N	C	SE	N	O	SE	CV	D	P	*Polysiphonia/Pterosiphonia (A) (a)* N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00		-	o 1.000	6	0.00	0.00	5	0.00	0.00		-	o 1.000	6	0.00	0.00	5	0.00	0.00		-	o 1.000
94935C/31288	1	6	2.83	2.01	6	0.17	0.17	0.9	+	0.622	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	2.83	2.01	6	0.17	0.17	0.9	+	0.622
Habitat Means			1.42	1.00		0.08	0.08		+			0.00	0.00		0.00	0.00			o		1.42	1.00		0.08	0.08		+	
Fisher's		Power	0.003		Power-50%		0.024	P-value		0.445	Power	---		Power-50%		---	P-value		0.597	Power	0.002		Power-50%		0.002	P-value		0.445
Stouffer's		Power	0.001		Power-50%		0.003	P-value		0.312	Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.009	P-value		0.312
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
94935C/31288	2	6	0.00	0.00	6	1.50	1.50	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	1.50	1.50	1.4	-	0.363
Habitat Means			0.00	0.00		0.75	0.75		-			0.00	0.00		0.00	0.00			o		0.00	0.00		0.75	0.75		-	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.182
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	5	0.00	0.00		-	o 1.000	6	0.00	0.00	5	0.00	0.00		-	o 1.000	6	0.00	0.00	5	0.00	0.00		-	o 1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
94935C/31288	2	6	0.00	0.00	6	2.00	2.00	1.4	-	0.363	6	0.00	0.00	6	2.00	2.00	1.4	-	0.363	6	0.00	0.00	6	2.00	2.00	1.4	-	0.363
Habitat Means			0.00	0.00		1.00	1.00		-			0.00	0.00		1.00	1.00			-		0.00	0.00		1.00	1.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
94935C/31288	3	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000	6	0.00	0.00	6	0.00	0.00		-	o 1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00			o		0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.141. Algal Biomass. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Algal Taxa Richness (a)									Total Algae									Perennials (P)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.33	0.21	6	0.17	0.17	0.8	+	0.549	6	282.17	182.01	6	0.33	0.33	0.9	+	0.351	6	282.17	182.01	6	0.33	0.33	0.9	+	0.351
Habitat Means			0.17	0.11		0.08	0.08		+			141.08	91.00		0.17	0.17		+			141.08	91.00		0.17	0.17		+	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.410	Power	0.090		Power-50%		0.082	P-value		0.301	Power	0.097		Power-50%		0.097	P-value		0.301
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.275	Power	0.068		Power-50%		0.014	P-value		0.176	Power	0.072		Power-50%		0.015	P-value		0.176
13.1C/13.1	2	6	0.67	0.67	6	0.00	0.00	1.4	+	0.363	6	1.34	1.34	6	0.00	0.00	1.4	+	0.363	6	0.33	0.33	6	0.00	0.00	1.4	+	0.363
94935C/31288	2	6	2.33	1.76	6	0.50	0.34	0.9	+	0.351	6	402.59	256.12	6	44.17	31.63	0.8	+	0.592	6	371.42	240.93	6	44.17	31.63	0.8	+	0.596
Habitat Means			1.50	1.22		0.25	0.17		+			201.96	128.73		22.08	15.82		+			185.88	120.63		22.08	15.82		+	
Fisher's		Power	0.141		Power-50%		0.095	P-value		0.142	Power	0.027		Power-50%		0.018	P-value		0.211	Power	0.023		Power-50%		0.023	P-value		0.212
Stouffer's		Power	0.217		Power-50%		0.168	P-value		0.162	Power	0.064		Power-50%		0.042	P-value		0.277	Power	0.066		Power-50%		0.066	P-value		0.279
13.1C/13.1	3	6	1.17	0.75	6	1.50	0.81	0.6	-	0.768	6	38.84	36.49	6	2.84	2.44	1.2	+	0.855	6	37.00	35.81	6	0.17	0.17	1.4	+	0.574
94935C/31288	3	6	2.67	1.50	5	0.20	0.20	0.8	+	0.162	6	1043.00	684.86	5	0.00	0.00	1.0	+	0.117	6	1020.33	679.27	5	0.00	0.00	1.0	+	0.118
Habitat Means			1.92	1.12		0.85	0.50		+			540.92	360.67		1.42	1.22		+			528.67	357.54		0.09	0.09		+	
Fisher's		Power	0.142		Power-50%		0.445	P-value		0.199	Power	0.130		Power-50%		0.075	P-value		0.118	Power	---		Power-50%		---	P-value		0.086
Stouffer's		Power	---		Power-50%		0.570	P-value		0.084	Power	---		Power-50%		---	P-value		0.058	Power	---		Power-50%		---	P-value		0.055

(a) 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.

		Annuals (A)									Ephemerals (AE)																	
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o										
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		
13.1C/13.1	2	6	1.00	1.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000									
94935C/31288	2	6	31.17	31.17	6	0.00	0.00	1.4	+	0.363	6	20.17	20.17	6	0.00	0.00	1.4	+	0.363									
Habitat Means			16.09	16.09		0.00	0.00		+			10.08	10.08		0.00	0.00		+										
Fisher's		Power	---		Power-50%		---	P-value		0.146	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		
Stouffer's		Power	---		Power-50%		---	P-value		0.167	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		
13.1C/13.1	3	6	1.84	1.17	6	2.67	2.28	0.8	-	0.752	6	0.84	0.83	6	2.50	2.31	1.0	-	0.513									
94935C/31288	3	6	22.67	19.12	5	0.00	0.00	1.3	+	0.289	6	2.17	2.17	5	0.00	0.00	1.6	+	0.363									
Habitat Means			12.25	10.15		1.34	1.14		+			1.50	1.50		1.25	1.15		+										
Fisher's		Power	0.073		Power-50%		0.320	P-value		0.307	Power	0.002		Power-50%		0.008	P-value		0.406	Power	---		Power-50%		---	P-value		
Stouffer's		Power	0.140		Power-50%		0.517	P-value		0.150	Power	0.008		Power-50%		0.027	P-value		0.193	Power	---		Power-50%		---	P-value		

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

Table C-3.142. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Total Chlorophyta									Morphological Group - Bladed Greens									Monostroma/Ulvaria (AE) (b)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	20.17	20.17	6	0.00	0.00	1.4	+	0.363	6	9.17	9.17	6	0.00	0.00	1.4	+	0.363	6	8.67	8.67	6	0.00	0.00	1.4	+	0.363
Habitat Means			10.08	10.08		0.00	0.00		+			4.58	4.58		0.00	0.00		+			4.33	4.33		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182
13.1C/13.1	3	6	0.00	0.00	6	0.17	0.17	1.4	-	0.665	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	1.83	1.83	5	0.00	0.00	1.6	+	0.363	6	1.83	1.83	5	0.00	0.00	1.6	+	0.363	6	1.83	1.83	5	0.00	0.00	1.6	+	0.363
Habitat Means			0.92	0.92		0.08	0.08		+			0.92	0.92		0.08	0.08		-			0.92	0.92		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.377	Power	---		Power-50%		---	P-value		0.432 y	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.190	Power	---		Power-50%		---	P-value		0.802	Power	---		Power-50%		---	P-value		0.182

(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.

		Total Ulva (AE)									Ulva spp. (AE)									Unidentified Green Blades								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.25	0.25		0.00	0.00		+			0.25	0.25		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363
94935C/31288	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.08	0.08		-	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.477

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

Table C-3.142. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Greens									Total Chaetomorpha/Rhizoclonium (A)									Chaetomorpha/Rhizoclonium spp. (A) (b)								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	11.00	11.00	6	0.00	0.00	1.4	+	0.363	6	3.67	3.67	6	0.00	0.00	1.4	+	0.363	6	3.67	3.67	6	0.00	0.00	1.4	+	0.363
Habitat Means			5.50	5.50		0.00	0.00		+			1.83	1.83		0.00	0.00		+			1.83	1.83		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Cladophora sp. (AE)									Ulothrix sp. (AE)									Morphological Group - Tubular and Saccate Greens								
		N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	3.67	3.67	6	0.00	0.00	1.4	+	0.363	6	3.67	3.67	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			1.83	1.83		0.00	0.00		+			1.83	1.83		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.142. Algal Biomass. Chlorophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

		Total Blidingia/Enteromorpha (AE)									Blidingia/Enteromorpha spp. (AE) (b)																				
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000											
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000											
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000											
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000											
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000											
94935C/31288	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000											
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o											
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			

(b) Enteromorpha clathrata and Enteromorpha intestinalis not included.

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

Table C-3.143. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Total Phaeophyta								Morphological Group - Bladed Browns								Unidentified Bladed Browns							
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	282.17	182.01	6	0.33	0.33	0.9	+	0.351	6	282.17	182.01	6	0.33	0.33	0.9	+	0.351	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			141.08	91.00		0.17	0.17		+			141.08	91.00		0.17	0.17		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.101		Power-50%		0.087	P-value		0.301	Power	0.095		Power-50%		0.096	P-value		0.301	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.072		Power-50%		0.017	P-value		0.176	Power	0.070		Power-50%		0.018	P-value		0.176	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	286.25	180.66	6	36.83	31.05	0.8	+	0.578	6	282.08	178.09	6	36.83	31.05	0.8	+	0.579	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			143.13	90.33		18.42	15.52		+			141.04	89.05		18.42	15.52		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.002		Power-50%		0.001	P-value		0.424	Power	0.003		Power-50%		0.001	P-value		0.424	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.001		Power-50%		0.000	P-value		0.290	Power	0.001		Power-50%		0.001	P-value		0.290	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	37.83	36.65	6	2.50	2.50	1.3	+	0.664	6	37.83	36.65	6	2.50	2.50	1.3	+	0.664	6	0.83	0.83	6	2.33	2.33	1.1	-	0.558
94935C/31288	3	6	1027.33	681.15	5	0.00	0.00	1.0	+	0.118	6	1026.50	681.18	5	0.00	0.00	1.0	+	0.118	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			532.58	358.90		1.25	1.25		+			532.17	358.91		1.25	1.25		+			0.42	0.42		1.17	1.17		-	
Fisher's		Power	---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.097	Power	---		Power-50%		---	P-value		0.415
Stouffer's		Power	---		Power-50%		0.164	P-value		0.056	Power	---		Power-50%		---	P-value		0.056	Power	---		Power-50%		---	P-value		0.485

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

		Alaria sp. (A)								Fucus gardneri (P)								am na l . (P)							
Site Pair	**MVD**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	282.17	182.01	6	0.33	0.33	0.9	+	0.351	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			141.08	91.00		0.17	0.17		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	0.102		Power-50%		0.093	P-value		0.301	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.075		Power-50%		0.022	P-value		0.176	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	282.08	178.09	6	36.83	31.05	0.8	+	0.579	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			141.04	89.05		18.42	15.52		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	0.002		Power-50%		0.001	P-value		0.424	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	0.001		Power-50%		0.000	P-value		0.290	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	37.00	35.81	6	0.17	0.17	1.4	+	0.549	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	6.67	6.67	5	0.00	0.00	1.6	+	0.363	6	1019.83	679.02	5	0.00	0.00	1.0	+	0.118	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			3.33	3.33		0.00	0.00		+			528.42	357.42		0.09	0.08		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.083	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.055	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.143. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Morphological Group - Coarse Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Chordaria flagelliformis (A) N	C	SE	N	O	SE	CV	D	P	Desmarestia sp. (A) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.25	0.25		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.50	0.50	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.25	0.25		0.00	0.00		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Myelophycus/Scytosiphon (A) (a) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Fine Filamentous Browns N	C	SE	N	O	SE	CV	D	P	Pilayella sp. (AE) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363	6	3.67	3.67	6	0.00	0.00	1.4	+	0.363	6	3.67	3.67	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.25	0.25		0.00	0.00		+			1.83	1.83		0.00	0.00		+			1.83	1.83		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.50	0.50	5	0.00	0.00	1.6	+	0.363	6	0.33	0.33	5	0.00	0.00	1.6	+	0.363	6	0.33	0.33	5	0.00	0.00	1.6	+	0.363
Habitat Means			0.25	0.25		0.00	0.00		+			0.17	0.17		0.00	0.00		+			0.17	0.17		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182

(a) Genera not separated.

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

Table C-3.143. Algal Biomass. Phaeophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Sphacelaria sp. (AE) N	C	SE	N	O	SE	CV	D	P	Morphological Group - Saccate Browns N	C	SE	N	O	SE	CV	D	P	Leathesia difformis (A) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500

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

Site Pair	MVD	Soranthera ulvoidea (A) N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P									CV
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value	
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value	
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000																	
94935C/31288	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000																	
Habitat Means			0.00	0.00		0.00	0.00		o																		
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value	
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value			Power	---		Power-50%		---	P-value	

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

Table C-3.144. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991.
Results of statistical differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

		Total Rhodophyta								Morphological Group - Bladed Reds								Unidentified Red Blades							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			*0.00*	*0.00*		*0.00*	*0.00*		o			*0.00*	*0.00*		*0.00*	*0.00*		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	1.34	1.34	6	0.00	0.00	1.4	+	0.363	6	1.00	1.00	6	0.00	0.00	1.4	+	0.363	6	0.83	0.83	6	0.00	0.00	1.4	+	0.363
94935C/31288	2	6	96.17	75.39	6	7.33	7.33	1.0	+	0.488	6	77.33	76.73	6	0.00	0.00	1.4	+	0.360	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			48.75	38.36		3.67	3.67		+			39.17	38.87		0.00	0.00		+			0.42	0.42		0.00	0.00		+	
Fisher's		Power	*0.112*		Power-50%		*0.109*	*P-value*		*0.182*	*Power*	*0.008*		Power-50%		*0.010*	*P-value*		*0.144*	*Power*	---		Power-50%		---	P-value		*0.309*
Stouffer's		Power	0.212		Power-50%		0.206	P-value		0.227	Power	0.047		Power-50%		0.025	P-value		0.166	Power	---		Power-50%		---	P-value		0.477
13.1C/13.1	3	6	1.00	1.00	6	0.17	0.17	1.2	+	0.943	6	1.00	1.00	6	0.00	0.00	1.4	+	0.604	6	1.00	1.00	6	0.00	0.00	1.4	+	0.363
94935C/31288	3	6	13.84	10.75	5	0.00	0.00	1.2	+	0.254	6	7.00	6.60	5	0.00	0.00	1.5	+	0.338	6	0.00	0.00	5	0.00	0.00		- o	1.000
Habitat Means			7.42	5.87		0.09	0.08		+			4.00	3.80		0.00	0.00		+			0.50	0.50		0.00	0.00		+	
Fisher's		Power	0.028		Power-50%		0.024	P-value		0.229	Power	0.080		Power-50%		0.040	P-value		0.203	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	0.091		Power-50%		0.084	P-value		0.127	Power	0.204		Power-50%		0.087	P-value		0.161	Power	---		Power-50%		---	P-value		0.477

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

		Neodilsea sp. (A)								Gigartinaceae Group (P) (a)								Total Palmaria (A)							
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	76.83	76.83	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00		- o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			38.42	38.42		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000	6	0.00	0.00	6	0.00	0.00		- o	1.000
94935C/31288	3	6	0.00	0.00	5	0.00	0.00		- o	1.000	6	0.17	0.17	5	0.00	0.00	1.6	+	0.363	6	3.67	3.67	5	0.00	0.00	1.6	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.08	0.08		0.00	0.00		+			1.83	1.83		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182

(a) Chondrus, Iridaea, Mastocarpus and Rhodoglossum.

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

Table C-3.144. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Palmaria callophylloides (A) N	C	SE	N	O	SE	CV	D	P	Palmaria hecatensis (A) N	C	SE	N	O	SE	CV	D	P	Porphyra sp. (A) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.17	0.17	6	0.00	0.00	1.4	+	0.363
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.50	0.50	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.33	0.33		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.146
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.167
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
94935C/31288	3	6	3.67	3.67	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	3.17	2.97	5	0.00	0.00	1.5	+	0.335
Habitat Means			1.83	1.83		0.00	0.00		+			0.00	0.00		0.00	0.00		o			1.58	1.49		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	0.000		Power-50%		0.000	P-value		0.410
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500	Power	0.000		Power-50%		0.000	P-value		0.183

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

Site Pair	MVD	Morphological Group - Coarse Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Cryptosiphonia woodii (A) N	C	SE	N	O	SE	CV	D	P	Endocladia muricata (P) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.33	0.33	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	12.50	12.50	6	7.33	7.33	1.0	+	0.729	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			6.42	6.42		3.67	3.67		+			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.246	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.343	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.17	0.17	1.4	-	0.358	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	2.00	1.63	5	0.00	0.00	1.3	+	0.275	6	1.67	1.67	5	0.00	0.00	1.6	+	0.363	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			1.00	0.82		0.00	0.00		+			0.83	0.83		0.00	0.00		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.000		Power-50%		0.000	P-value		0.359	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.151	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500

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

Table C-3.144. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

		Gloiopeltis furcata (A)									Total Neorhodomela/Rhodomela (P)									Neorhodomela/Rhodomela spp. (P) (b)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	12.50	12.50	6	7.33	7.33	1.0	+	0.729	6	12.50	12.50	6	0.00	0.00	1.4	+	0.363
Habitat Means			0.00	0.00		0.00	0.00		o			6.25	6.25		3.67	3.67		+			6.25	6.25		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.493	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.365	Power	---		Power-50%		---	P-value		0.182
13.1C/13.1	3	6	0.00	0.00	6	0.17	0.17	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
94935C/31288	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.33	0.33	5	0.00	0.00	1.6	+	0.363	6	0.33	0.33	5	0.00	0.00	1.6	+	0.363
Habitat Means			0.00	0.00		0.08	0.08		-			0.17	0.17		0.00	0.00		-			0.17	0.17		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.432 y	Power	---		Power-50%		---	P-value		0.432 y
Stouffer's		Power	---		Power-50%		---	P-value		0.477	Power	---		Power-50%		---	P-value		0.802	Power	---		Power-50%		---	P-value		0.802

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

		Neorhodomela larix (P)									Neoptilota asplenioides (P)									Odonthalia floccosa (P)								
Site Pair	MVD	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.33	0.33	6	0.00	0.00	1.4	+	0.363
94935C/31288	2	6	0.00	0.00	6	7.33	7.33	1.4	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		3.67	3.67		-			0.00	0.00		0.00	0.00		o			0.17	0.17		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.477
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	-	0.363
94935C/31288	3	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.477

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

Table C-3.144. Algal Biomass. Rhodophyta. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Morphological Group - Fine Filamentous Reds N	C	SE	N	O	SE	CV	D	P	Antithamnion/Antithamnionella (A) (b) N	C	SE	N	O	SE	CV	D	P	Polysiphonia/Pterosiphonia (A) (a) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	1.4	+	0.363
94935C/31288	2	6	6.33	6.33	6	0.00	0.00	1.4	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	6.33	6.33	6	0.00	0.00	1.4	+	0.363
Habitat Means			3.17	3.17		0.00	0.00		+			0.00	0.00		0.00	0.00		o			3.17	3.17		0.00	0.00		+	
Fisher's		*Power*	---		*Power-50%*		---	*P-value*		*0.146*	*Power*	---		*Power-50%*		---	P-value		*0.597*	*Power*	---		*Power-50%*		---	P-value		0.146
Stouffer's		Power	---		Power-50%		---	P-value		0.167	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.167
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	0.8	+	0.549	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	0.8	+	0.549
94935C/31288	3	6	3.84	2.95	5	0.00	0.00	1.2	+	0.250	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	3.84	2.95	5	0.00	0.00	1.2	+	0.250
Habitat Means			1.92	1.48		0.00	0.00		+			0.00	0.00		0.00	0.00		o			1.92	1.48		0.00	0.00		+	
Fisher's		Power	0.211		Power-50%		.406	P-value		0.150	Power	---		Power-50%		---	P-value		0.597	Power	0.211		Power-50%		0.211	P-value		0.150
Stouffer's		Power	0.309		Power-50%		.543	P-value		0.118	Power	---		Power-50%		---	P-value		0.500	Power	0.304		Power-50%		0.593	P-value		0.118

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

Site Pair	MVD	Morphological Group - Saccate Reds N	C	SE	N	O	SE	CV	D	P	Total Halosaccion (A) N	C	SE	N	O	SE	CV	D	P	Halosaccion glandiforme (A) N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597	Power	---		Power-50%		---	P-value		0.597
Stouffer's		Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500	Power	---		Power-50%		---	P-value		0.500
13.1C/13.1	3	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	1.00	1.00	5	0.00	0.00	1.6	+	0.363	6	1.00	1.00	5	0.00	0.00	1.6	+	0.363	6	1.00	1.00	5	0.00	0.00	1.6	+	0.363
Habitat Means			0.50	0.50		0.00	0.00		+			0.50	0.50		0.00	0.00		+			0.50	0.50		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309	Power	---		Power-50%		---	P-value		0.309
Stouffer's		Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182	Power	---		Power-50%		---	P-value		0.182

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

Table C-4.1. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. May 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	29.42	15.45	6	12.73	9.46	-	+	0.293	6	29.20	15.53	6	8.77	6.39	-	+	0.236	6	2.73	1.56	6	13.13	8.63	-	-	0.350
453C/453	1	6	33.07	13.63	6	19.38	7.77	-	+	0.320	6	32.23	13.35	6	13.35	5.53	-	+	0.178	6	6.07	2.45	6	4.18	1.43	-	+	0.652
601C/601	1	6	14.80	9.42	6	1.05	0.82	-	+	0.117	6	13.35	9.61	6	0.63	0.63	-	+	0.155	6	21.90	9.90	6	5.23	1.81	-	+	0.084
598C/598	1	6	1.68	1.01	6	2.32	1.10	-	-	0.767	6	0.63	0.43	6	1.68	1.11	-	-	0.612	6	6.27	3.14	6	6.90	2.57	-	-	0.632
1522C/1522	1	6	7.10	3.94	6	19.38	6.53	-	-	0.177	6	7.10	3.94	6	8.98	4.11	-	-	0.651	6	24.40	13.26	6	18.78	7.24	-	+	0.871
Habitat Means			17.22	8.68		10.98	5.14		+			16.50	8.56		6.70	3.54		+			12.28	6.08		9.64	4.32		+	
Fisher's		Power	0.179			Power-50%	0.629	P-value		0.158	Power	0.275			Power-50%	0.543	P-value		0.108	Power	0.101			Power-50%	0.584	P-value		0.328
Stouffer's		Power	0.062			Power-50%	0.584	P-value		0.299	Power	0.108			Power-50%	0.663	P-value		0.236	Power	0.079			Power-50%	0.550	P-value		0.432
4825C/1424	2	6	47.73	12.86	6	44.87	15.48	-	+	0.739	6	38.77	10.56	6	14.72	5.24	-	+	0.057	6	6.88	3.05	6	9.18	5.42	-	-	0.997
453C/453	2	6	48.98	10.60	6	33.77	12.87	-	+	0.343	6	28.17	8.46	6	17.30	5.39	-	+	0.360	6	13.37	3.58	6	0.85	0.63	-	-	0.001
601C/601	2	6	56.07	13.44	6	20.52	8.20	-	-	0.057	6	52.32	14.03	6	14.60	7.98	-	+	0.043	6	11.48	5.63	6	15.55	6.13	-	-	0.421
598C/598	2	6	11.55	6.58	6	39.82	16.28	-	-	0.191	6	10.28	5.73	6	28.77	12.74	-	-	0.307	6	25.90	6.64	6	18.15	5.21	-	-	0.342
1522C/1522	2	6	41.57	13.21	4	86.85	4.51	-	-	0.036	6	37.37	11.21	4	38.82	18.36	-	-	0.796	6	13.63	3.78	4	5.03	3.38	-	-	0.087
Habitat Means			41.20	11.34		45.18	11.48		+			33.40	10.00		22.84	9.94		+			14.26	4.54		9.78	4.14		+	
Fisher's		Power	0.101			Power-50%	0.605	P-value		0.231xy	Power	---			Power-50%	---	P-value		0.034	Power	---			Power-50%	---	P-value		0.003
Stouffer's		Power	0.006			Power-50%	0.596	P-value		0.678	Power	0.026			Power-50%	0.516	P-value		0.356	Power	---			Power-50%	---	P-value		0.004
4825C/1424	3	4	93.80	1.77	6	88.08	4.84	-	+	0.701	4	42.53	13.58	6	23.33	15.09	-	+	0.323	4	0.33	0.33	6	0.87	0.27	-	-	0.242
453C/453	3	5	82.96	10.87	4	20.35	10.58	-	+	0.005	5	40.02	10.62	4	7.20	3.41	-	+	0.084	5	4.06	1.33	4	0.33	0.33	-	+	0.043
601C/601	3	5	73.02	12.93	6	55.52	15.33	-	+	0.444	5	35.26	9.31	6	27.07	12.25	-	+	0.423	5	6.76	3.52	6	10.70	4.57	-	-	0.703
598C/598	3	6	58.15	13.01	6	57.32	10.96	-	+	0.882	6	37.32	9.55	6	22.52	5.72	-	+	0.250	6	14.83	5.78	6	17.73	5.15	-	-	0.596
1522C/1522	3	5	54.78	13.92	1	93.80	--	-	+	---	5	33.90	13.97	1	25.00	--	-	+	---	5	13.02	3.97	1	2.50	--	-	+	---
Habitat Means			72.56	10.50		63.02	10.43		+			37.80	11.42		21.02	9.13		+			7.80	2.98		6.42	2.60		-	
Fisher's		Power	---			Power-50%	---	P-value		0.016	Power	---			Power-50%	---	P-value		0.028	Power	0.235			Power-50%	0.464	P-value		0.361xy
Stouffer's		Power	---			Power-50%	---	P-value		0.030	Power	---			Power-50%	---	P-value		0.015	Power	0.034			Power-50%	0.525	P-value		0.663

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

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	6	67.93	15.93	6	72.93	10.73	-	-	0.765	6	67.93	15.93	6	72.93	10.73	-	-	0.765	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	60.92	12.69	6	75.43	7.76	-	-	0.316	6	60.92	12.69	6	75.43	7.76	-	-	0.316	6	0.00	0.00	6	0.00	0.00	-	o	1.000
601C/601	1	6	63.15	12.42	6	93.78	2.40	-	-	0.018	6	63.15	12.42	6	93.78	2.40	-	-	0.018	6	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	1	6	92.10	3.51	6	90.85	2.73	-	+	0.652	6	92.10	3.51	6	90.85	2.73	-	+	0.652	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	1	6	68.57	11.76	6	61.48	12.18	-	+	0.693	6	68.57	11.76	6	61.48	12.18	-	+	0.693	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			70.54	11.26		78.90	7.16		-			70.54	11.26		78.90	7.16		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---			Power-50%	---	P-value		0.083	Power	---			Power-50%	---	P-value		0.083	Power	---			Power-50%	---	P-value		0.732
Stouffer's		Power	0.387			Power-50%	0.694	P-value		0.246	Power	0.233			Power-50%	0.712	P-value		0.246	Power	---			Power-50%	---	P-value		0.500
4825C/1424	2	6	45.45	13.11	6	45.77	15.66	-	-	0.872	6	45.45	13.11	6	45.77	15.66	-	-	0.872	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	37.73	10.06	6	65.03	12.69	-	-	0.126	6	37.73	10.06	6	64.83	12.71	-	-	0.129	6	0.00	0.00	6	0.22	0.22	-	-	0.363
601C/601	2	6	32.52	9.58	6	64.00	8.50	-	-	0.031	6	32.52	9.58	6	63.57	8.43	-	-	0.033	6	0.00	0.00	6	0.43	0.27	-	-	0.175
598C/598	2	6	62.40	7.70	6	42.10	13.96	-	+	0.240	6	62.40	7.70	6	42.10	13.96	-	+	0.240	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1522C/1522	2	6	44.87	14.74	4	8.15	4.59	-	+	0.066	6	44.87	14.74	4	8.15	4.59	-	-	0.066	6	0.00	0.00	4	0.00	0.00	-	o	1.000
Habitat Means			44.60	11.04		45.02	11.10		-			44.60	11.04		44.90	11.08		-			0.00	0.00		0.12	0.10		-	
Fisher's		Power	0.075			Power-50%	0.924	P-value		0.105x	Power	0.073			Power-50%	0.909	P-value		0.109x	Power	0.018			Power-50%	---	P-value		0.256
Stouffer's		Power	0.036			Power-50%	0.868	P-value		0.485	Power	0.004			Power-50%	0.853	P-value		0.489	Power	0.110			Power-50%	---	P-value		0.213
4825C/1424	3	4	5.98	1.47	6	11.10	4.83	-	-	0.884	4	5.98	1.47	6	11.10	4.83	-	-	0.884	4	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	3	5	13.02	10.84	4	79.40	10.45	-	-	0.004	5	13.02	10.84	4	79.40	10.45	-	-	0.004	5	0.00	0.00	4	0.00	0.00	-	o	1.000
601C/601	3	5	20.28	9.54	6	33.62	13.79	-	-	0.493	5	20.28	9.54	6	33.62	13.79	-	-	0.493	5	0.00	0.00	6	0.00	0.00	-	o	1.000
598C/598	3	6	26.90	9.39	6	25.02	6.68	-	+	0.986	6	25.65	8.79	6	25.02	6.68	-	+	0.944	6	1.27	0.65	6	0.00	0.00	-	-	0.085
1522C/1522	3	5	32.26	9.97	1	3.80	--	-	+	---	5	32.26	9.97	1	3.80	--	-	+	---	5	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			19.70	8.24		30.58	8.95		-			19.46	8.12		30.58	8.95		-			0.26	0.14		0.00	0.00		-	
Fisher's		Power	---			Power-50%	---	P-value		0.019	Power	---			Power-50%	---	P-value		0.019	Power	0.018			Power-50%	0.019	P-value		0.234
Stouffer's		Power	---			Power-50%	---	P-value		0.041	Power	---			Power-50%	---	P-value		0.044	Power	---			Power-50%	---	P-value		0.086

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

Table C-4.2. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. July 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
4825C/1424	1	6	27.53	14.24	6	2.08	2.08	-	+	0.081	6	27.53	14.24	6	0.63	0.63	-	+	0.082	6	6.88	3.47	6	21.47	12.88	-	-	0.388
453C/453	1	6	30.97	10.60	9	7.10	4.64	-	+	0.022	6	29.47	10.61	9	6.82	4.61	-	+	0.025	6	12.55	4.78	9	3.07	2.91	-	+	0.065
601C/601	1	6	5.25	3.84	8	5.01	2.87	-	+	0.929	6	5.02	3.89	8	3.60	2.77	-	+	0.829	6	16.50	6.88	8	4.39	2.14	-	+	0.039
598C/598	1	6	2.52	1.48	9	7.78	6.02	-	-	0.713	6	1.27	0.79	9	7.78	6.02	-	-	0.530	6	13.98	6.49	9	11.12	3.05	-	+	0.630
1522C/1522	1	6	39.18	13.29	9	26.40	11.39	-	+	0.456	6	39.18	13.29	9	20.43	9.49	-	+	0.266	6	7.95	6.21	9	11.84	4.40	-	-	0.383
Habitat Means			21.10	8.68		9.68	5.40		+			20.50	8.56		7.84	4.70		+			11.60	5.58		10.38	5.08		+	
Fisher's		Power	---		Power-50%		---	P-value		0.022	Power	---		Power-50%		---	P-value		0.018	Power	---		Power-50%		---	P-value		0.057
Stouffer's		Power	---		Power-50%		---	P-value		0.088	Power	0.625		Power-50%		0.725	P-value		0.111	Power	---		Power-50%		---	P-value		0.063
4825C/1424	2	6	41.07	13.66	6	23.58	9.31	-	+	0.424	6	33.57	12.86	6	18.77	9.45	-	+	0.396	6	15.65	7.75	6	28.63	9.19	-	-	0.213
453C/453	2	6	40.98	9.20	9	33.19	9.10	-	+	0.520	6	34.57	8.58	9	30.99	7.97	-	+	0.699	6	15.32	3.21	9	2.79	0.90	-	-	0.001
601C/601	2	6	17.53	6.03	9	22.23	8.14	-	-	0.885	6	15.65	6.07	9	15.84	5.68	-	-	0.889	6	24.60	9.86	9	14.19	4.23	-	-	0.331
598C/598	2	6	15.23	9.62	9	35.29	10.45	-	-	0.196	6	15.02	9.65	9	23.07	6.81	-	-	0.415	6	25.28	5.85	9	27.38	6.52	-	-	0.872
1522C/1522	2	6	31.48	11.26	8	53.44	11.31	-	-	0.176	6	23.78	10.96	8	19.39	8.08	-	-	0.830	6	18.57	6.03	8	21.41	9.30	-	-	0.970
Habitat Means			29.26	9.96		33.54	9.66		-			24.54	9.66		21.62	7.62		+			19.90	6.56		18.88	6.02		-	
Fisher's		Power	0.078		Power-50%		0.613	P-value		0.271	Power	0.118		Power-50%		0.609	P-value		0.557	Power	0.031		Power-50%		0.888	P-value		0.634xy
Stouffer's		Power	0.030		Power-50%		0.557	P-value		0.193	Power	0.107		Power-50%		0.520	P-value		0.617	Power	0.000		Power-50%		0.815	P-value		0.955
4825C/1424	3	5	55.26	18.01	6	73.42	11.76	-	-	0.503	5	33.78	14.52	6	35.45	12.65	-	-	0.875	5	10.02	8.49	6	3.23	1.87	-	+	0.578
453C/453	3	6	63.08	8.86	8	23.91	9.25	-	+	0.012	6	25.63	9.02	8	19.38	8.45	-	+	0.547	6	7.38	5.54	8	1.74	1.11	-	+	0.175
601C/601	3	5	36.52	13.66	8	63.00	9.49	-	-	0.121	5	22.78	8.09	8	39.56	10.82	-	-	0.289	5	13.02	5.68	8	11.74	5.30	-	+	0.855
598C/598	3	6	55.03	9.76	9	47.66	11.79	-	+	0.587	6	32.73	8.71	9	22.52	5.56	-	+	0.269	6	21.28	5.39	9	17.30	6.10	-	+	0.504
1522C/1522	3	6	44.95	10.42	6	79.82	7.22	-	-	0.024	6	34.10	8.42	6	25.23	7.11	-	+	0.547	6	10.45	2.80	6	1.07	0.61	-	+	0.003
Habitat Means			50.98	12.16		57.56	9.92		-			29.80	9.74		28.44	8.94		-			12.44	5.58		7.00	3.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.055x	Power	0.167		Power-50%		0.667	P-value		0.384	Power	---		Power-50%		---	P-value		0.006
Stouffer's		Power	0.001		Power-50%		0.638	P-value		0.797	Power	0.178		Power-50%		0.636	P-value		0.150	Power	---		Power-50%		---	P-value		0.024

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

		Total Substrate								Rock								Sand and Mud							
Site Pair	**Mvd**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**	**N**	**C**	**SE**	**N**	**O**	**SE**	**CV**	**D**	**P**
4825C/1424	1	6	65.43	14.99	6	76.47	12.68	-	-	0.525	6	65.43	14.99	6	76.47	12.68	-	-	0.525	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	1	6	56.50	13.47	9	89.88	5.40	-	-	0.020	6	49.00	11.05	9	89.88	5.40	-	-	0.004	6	7.50	7.50	9	0.00	0.00	-	+	0.363
601C/601	1	6	78.32	7.49	8	90.65	3.46	-	-	0.114	6	78.32	7.49	8	90.65	3.46	-	-	0.114	6	0.00	0.00	8	0.00	0.00	-	o	1.000
598C/598	1	6	83.57	7.64	9	81.12	6.72	-	-	0.996	6	83.57	7.64	9	81.12	6.72	-	+	0.996	6	0.00	0.00	9	0.00	0.00	-	o	1.000
1522C/1522	1	6	52.52	11.65	9	61.78	12.54	-	-	0.640	6	52.52	11.65	9	61.78	12.54	-	-	0.640	6	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			67.26	11.06		80.00	8.16		-			65.76	10.58		80.00	8.16		-			1.50	1.50		0.00	0.00		-	
Fisher's		Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.536
Stouffer's		Power	---		Power-50%		---	P-value		0.037	Power	---		Power-50%		---	P-value		0.018	Power	---		Power-50%		---	P-value		0.315
4825C/1424	2	6	43.15	11.09	6	47.83	10.32	-	-	0.815	6	43.15	11.09	6	47.83	10.32	-	-	0.815	6	0.00	0.00	6	0.00	0.00	-	o	1.000
453C/453	2	6	43.73	9.86	9	63.91	9.73	-	-	0.175	6	43.73	9.86	9	61.13	8.99	-	-	0.222	6	0.00	0.00	9	2.78	2.78	-	-	0.347
601C/601	2	6	57.97	8.21	9	63.50	8.64	-	-	0.565	6	57.97	8.21	9	60.30	7.62	-	-	0.820	6	0.00	0.00	9	3.20	2.25	-	-	0.127
598C/598	2	6	59.32	8.18	9	36.82	9.00	-	+	0.107	6	59.32	8.18	9	36.82	9.00	-	+	0.107	6	0.00	0.00	9	0.00	0.00	-	o	1.000
1522C/1522	2	6	50.02	15.03	8	25.16	9.37	-	+	0.143	6	50.02	15.03	8	25.16	9.37	-	+	0.143	6	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			50.84	10.48		47.44	9.40		-			50.84	10.48		46.24	9.06		-			0.00	0.00		1.20	1.02		-	
Fisher's		Power	0.028		Power-50%		0.996	P-value		0.490 y	Power	0.020		Power-50%		0.997	P-value		0.606 y	Power	0.002		Power-50%		---	P-value		0.214
Stouffer's		Power	0.011		Power-50%		0.985	P-value		0.749	Power	0.007		Power-50%		0.981	P-value		0.795	Power	0.029		Power-50%		---	P-value		0.197
4825C/1424	3	5	34.78	16.33	6	23.37	12.56	-	+	0.623	5	25.30	9.14	6	23.37	12.56	-	-	0.944	5	9.52	9.20	6	0.00	0.00	-	+	0.302
453C/453	3	6	29.57	6.86	8	74.38	9.61	-	-	0.006	6	29.57	6.86	8	69.69	9.92	-	-	0.013	6	0.00	0.00	8	4.69	4.02	-	-	0.219
601C/601	3	5	50.50	13.19	8	25.33	7.60	-	+	0.092	5	50.50	13.19	8	19.23	6.15	-	+	0.033	5	0.00	0.00	8	6.10	2.67	-	-	0.041
598C/598	3	6	23.77	5.12	9	35.09	8.15	-	-	0.354	6	23.37	4.99	9	34.96	8.09	-	-	0.338	6	0.43	0.27	9	0.14	0.14	-	+	0.326
1522C/1522	3	6	43.80	11.99	6	19.18	7.44	-	+	0.093	6	29.45	5.50	6	19.18	7.44	-	+	0.217	6	14.40	13.39	6	0.00	0.00	-	+	0.242
Habitat Means			36.50	10.70		35.48	9.08		+			31.66	7.94		33.30	8.84		+			4.86	4.58		2.18	1.36		+	
Fisher's		Power	0.280		Power-50%		0.799	P-value		0.131x	Power	0.294		Power-50%		0.855	P-value		0.149xy	Power	0.015		Power-50%		0.025	P-value		0.291x
Stouffer's		Power	0.021		Power-50%		0.707	P-value		0.915	Power	0.019		Power-50%		0.770	P-value		0.904	Power	0.000		Power-50%		0.022	P-value		0.491

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

Table C-4.3. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. June 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae							Total Fucus gardneri (P)							Total Invertebrates						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	10.83	6.43	4	0.00	0.00	-	+	0.087	6	9.80	6.07	4	0.00	0.00	-	+	0.131	6	3.55	1.72	4	1.25	1.25	-	-	0.311
1598C/1598	1	5	4.26	4.26	5	0.00	0.00	-	+	0.374	5	4.26	4.26	5	0.00	0.00	-	+	0.374	5	3.52	2.08	5	1.26	1.26	-	+	0.312
846C/846	1	6	0.63	0.63	6	0.22	0.22	-	+	0.726	6	0.63	0.63	6	0.22	0.22	-	+	0.726	6	1.27	0.79	6	3.63	2.14	-	-	0.353
1650C/1650	1	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	0.00	0.00	5	0.00	0.00	-	o	1.000	6	3.13	2.45	5	0.00	0.00	-	+	0.204
Habitat Means			3.93	2.82		0.05	0.05		-			3.68	2.75		0.05	0.05		+			2.88	1.78		1.55	1.18		+	
Fisher's		Power	0.051		Power-50%		0.011	P-value		0.110	Power	0.020		Power-50%		0.017	P-value		0.142	Power	0.222		Power-50%		0.550	P-value		0.135
Stouffer's		Power	0.008		Power-50%		0.012	P-value		0.176	Power	0.007		Power-50%		0.005	P-value		0.176	Power	0.150		Power-50%		0.429	P-value		0.159
506C/506	2	6	24.82	8.40	4	31.77	17.09	-	-	0.810	6	22.32	8.54	4	23.80	18.58	-	-	0.929	6	6.27	1.38	4	5.62	4.00	-	-	0.653
1598C/1598	2	5	0.00	0.00	5	0.50	0.50	-	-	0.374	5	0.00	0.00	5	0.50	0.50	-	-	0.374	5	4.76	2.03	5	5.04	1.86	-	-	0.771
846C/846	2	6	3.97	3.71	6	3.55	2.21	-	+	0.806	6	3.97	3.71	6	2.93	2.26	-	+	0.960	6	1.68	0.62	6	10.30	2.37	-	-	0.004
1650C/1650	2	6	26.48	11.39	5	0.00	0.00	-	+	0.042	6	26.07	11.39	5	0.00	0.00	-	+	0.043	6	6.48	2.61	5	2.52	2.21	-	+	0.220
Habitat Means			13.82	5.88		8.98	4.95		-			13.10	5.90		6.80	5.35		+			4.82	1.65		5.85	2.63		-	
Fisher's		Power	0.037		Power-50%		0.125	P-value		0.203	Power	0.049		Power-50%		0.106	P-value		0.214	Power	---		Power-50%		---	P-value		0.052
Stouffer's		Power	0.000		Power-50%		0.000	P-value		0.606	Power	0.000		Power-50%		0.000	P-value		0.627	Power	0.104		Power-50%		0.471	P-value		0.221
506C/506	3	5	87.52	11.28	4	42.85	20.26	-	+	0.054	5	37.52	9.50	4	19.70	17.66	-	+	0.259	5	1.76	1.46	4	10.35	5.39	-	-	0.049
1598C/1598	3	4	64.10	20.63	5	11.00	6.78	-	+	0.034	4	5.03	1.14	5	11.00	6.78	-	-	0.996	4	5.32	4.09	5	11.26	4.72	-	-	0.419
846C/846	3	5	19.54	7.93	5	12.82	8.38	-	+	0.355	5	19.04	8.00	5	12.82	8.38	-	+	0.374	5	7.78	1.64	5	9.04	2.95	-	-	0.920
1650C/1650	3	6	19.20	9.47	5	0.00	0.00	-	+	0.028	6	13.13	7.83	5	0.00	0.00	-	+	0.070	6	9.40	3.46	5	0.00	0.00	-	-	0.005
Habitat Means			47.58	12.33		16.67	8.88		-			18.65	6.60		10.87	8.22		+			6.08	2.68		7.68	3.28		-	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.050	Power	0.203		Power-50%		0.788	P-value		0.148x
Stouffer's		Power	---		Power-50%		---	P-value		0.003	Power	0.133		Power-50%		0.711	P-value		0.246	Power	0.026		Power-50%		0.472	P-value		0.459

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

		Total Substrate							Rock							Sand and Mud						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	85.03	6.98	4	98.75	1.25	-	-	0.063	6	52.93	16.07	4	86.25	13.75	-	-	0.119	6	32.10	15.95	4	12.50	12.50	-	+	0.411
1598C/1598	1	5	92.28	3.85	5	98.76	1.24	-	-	0.091	5	40.54	13.04	5	65.02	16.96	-	-	0.447	5	51.78	14.81	5	33.76	17.52	-	+	0.667
846C/846	1	6	85.22	10.20	6	95.57	2.21	-	-	0.392	6	6.48	3.12	6	95.57	2.21	-	-	0.000	6	78.77	9.87	6	0.00	0.00	-	+	0.000
1650C/1650	1	6	96.88	2.45	5	100.00	0.00	-	-	0.205	6	86.68	12.59	5	52.00	22.45	-	+	0.168	6	10.22	10.22	5	48.00	22.45	-	-	0.120
Habitat Means			89.85	5.90		98.30	1.18		-			46.65	11.20		74.73	13.88		-			43.23	12.73		23.58	13.13		+	
Fisher's		Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.002
Stouffer's		Power	---		Power-50%		---	P-value		0.017	Power	---		Power-50%		---	P-value		0.073	Power	0.466		Power-50%		0.828	P-value		0.146
506C/506	2	6	69.00	7.58	4	62.63	16.27	-	+	0.795	6	29.82	9.65	4	62.63	16.27	-	-	0.096	6	39.18	13.05	4	0.00	0.00	-	-	0.027
1598C/1598	2	5	95.26	2.03	5	94.54	1.83	-	+	0.690	5	11.28	5.29	5	60.28	16.90	-	-	0.028	5	84.02	6.86	5	34.28	16.75	-	-	0.030
846C/846	2	6	94.38	3.92	6	86.20	2.84	-	+	0.053	6	10.43	6.03	6	86.20	2.84	-	-	0.000	6	83.98	9.34	6	0.00	0.00	-	-	0.000
1650C/1650	2	6	67.12	12.13	5	97.52	2.19	-	-	0.033	6	57.95	11.81	5	71.28	18.23	-	-	0.538	6	9.17	3.33	5	26.26	18.97	-	-	0.573
Habitat Means			81.45	6.40		85.20	5.77		-			27.38	8.20		70.10	13.55		-			54.10	8.15		15.15	8.95		+	
Fisher's		Power	0.082		Power-50%		1.000	P-value		0.187xy	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	0.019		Power-50%		0.999	P-value		0.349	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.002
506C/506	3	5	10.76	9.84	4	46.90	17.19	-	-	0.065	5	2.76	1.95	4	46.58	16.96	-	-	0.013	5	8.00	8.00	4	0.33	0.33	-	+	0.513
1598C/1598	3	4	30.68	16.56	5	77.76	6.62	-	-	0.027	4	9.73	2.85	5	62.28	8.36	-	-	0.001	4	20.95	17.25	5	15.54	11.55	-	+	0.869
846C/846	3	5	72.76	9.14	5	78.18	9.40	-	-	0.644	5	11.52	5.44	5	78.18	9.40	-	-	0.001	5	61.26	11.79	5	0.00	0.00	-	+	0.002
1650C/1650	3	6	71.47	9.88	5	100.00	0.00	-	-	0.006	6	55.65	10.10	5	98.00	2.00	-	-	0.001	6	15.87	9.39	5	2.00	2.00	-	+	0.144
Habitat Means			46.45	11.35		75.73	8.30		-			19.92	5.10		71.28	9.20		-			26.55	11.63		4.45	3.48		-	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.003
Stouffer's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.088

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

Table C-4.4. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. July 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae							Total Fucus gardneri (P)							Total Invertebrates						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	6.25	5.31	7	6.97	4.70	-	-	0.839	6	6.25	5.31	7	6.97	4.70	-	-	0.839	6	1.05	0.68	7	10.19	7.32	-	-	0.128
1598C/1598	1	5	6.52	5.00	5	0.00	0.00	-	+	0.144	5	6.52	5.00	5	0.00	0.00	-	+	0.144	5	8.02	6.78	5	0.50	0.50	-	+	0.232
846C/846	1	6	0.63	0.43	5	0.00	0.00	-	+	0.182	6	0.63	0.43	5	0.00	0.00	-	+	0.182	6	0.22	0.22	5	3.68	1.41	-	-	0.016
1650C/1650	1	6	7.08	7.08	6	0.00	0.00	-	+	0.363	6	7.08	7.08	6	0.00	0.00	-	+	0.363	6	1.88	1.64	6	0.00	0.00	-	+	0.230
Habitat Means			5.13	4.45		1.75	1.18		+			5.13	4.45		1.75	1.18		+			2.80	2.32		3.60	2.30		-	
Fisher's		Power	---		Power-50%		---	P-value		0.068	Power	---		Power-50%		---	P-value		0.068	Power	---		Power-50%		---	P-value		0.048
Stouffer's		Power	---		Power-50%		---	P-value		0.026	Power	---		Power-50%		---	P-value		0.026	Power	0.002		Power-50%		0.280	P-value		0.768
506C/506	2	6	22.30	14.35	7	10.73	7.35	-	+	0.521	6	22.30	14.35	7	10.36	7.12	-	+	0.508	6	5.42	1.19	7	6.44	2.19	-	-	0.828
1598C/1598	2	5	30.76	18.86	5	0.00	0.00	-	+	0.142	5	3.50	2.45	5	0.00	0.00	-	+	0.193	5	6.02	4.80	5	1.26	0.97	-	-	0.381
846C/846	2	6	5.43	5.18	5	7.02	4.59	-	-	0.623	6	5.43	5.18	5	7.02	4.59	-	-	0.623	6	5.45	2.81	5	6.02	1.56	-	-	0.760
1650C/1650	2	6	15.23	11.81	6	0.00	0.00	-	+	0.123	6	15.23	11.81	6	0.00	0.00	-	+	0.123	6	8.77	2.09	6	0.22	0.22	-	+	0.002
Habitat Means			18.43	12.58		4.43	3.00		+			11.60	8.48		4.35	2.93		+			6.43	2.72		3.47	1.25		+	
Fisher's		Power	---		Power-50%		---	P-value		0.074	Power	---		Power-50%		---	P-value		0.089	Power	---		Power-50%		---	P-value		0.014
Stouffer's		Power	---		Power-50%		---	P-value		0.054	Power	---		Power-50%		---	P-value		0.073	Power	---		Power-50%		---	P-value		0.069
506C/506	3	5	46.26	13.87	6	37.32	15.43	-	+	0.549	5	31.02	7.12	6	27.32	16.07	-	+	0.559	5	8.52	2.83	6	6.68	3.89	-	+	0.570
1598C/1598	3	5	28.28	10.28	5	2.52	1.32	-	+	0.047	5	19.54	8.08	5	2.52	1.32	-	-	0.077	5	6.28	3.77	5	20.02	7.65	-	-	0.076
846C/846	3	5	4.52	2.88	5	7.42	6.49	-	-	0.778	5	4.52	2.88	5	0.26	0.26	-	+	0.231	5	11.76	1.92	5	6.76	3.91	-	+	0.161
1650C/1650	3	6	23.35	14.21	6	0.22	0.22	-	+	0.096	6	8.13	4.45	6	0.00	0.00	-	-	0.090	6	4.58	3.06	6	3.33	1.54	-	+	0.850
Habitat Means			25.62	10.33		11.85	5.85		+			16.78	5.65		7.53	4.42		+			7.80	2.90		9.20	4.25		+	
Fisher's		Power	---		Power-50%		---	P-value		0.029	Power	---		Power-50%		---	P-value		0.012	Power	0.141		Power-50%		0.794	P-value		0.315xy
Stouffer's		Power	---		Power-50%		---	P-value		0.015	Power	---		Power-50%		---	P-value		0.009	Power	0.000		Power-50%		0.560	P-value		0.888

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

		Total Substrate							Rock							Sand and Mud						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	6	91.47	5.83	7	82.87	9.05	-	+	0.473	6	73.98	14.29	7	79.84	8.59	-	-	0.842	6	17.52	12.09	7	3.04	3.04	-	+	0.285
1598C/1598	1	5	84.50	7.09	5	99.50	0.50	-	-	0.034	5	51.02	17.57	5	54.52	18.89	-	-	0.901	5	33.52	20.05	5	45.02	19.18	-	-	0.600
846C/846	1	6	69.40	15.04	5	96.36	1.41	-	-	0.177	6	7.95	2.92	5	96.36	1.41	-	-	0.000	6	61.48	16.98	5	0.00	0.00	-	+	0.009
1650C/1650	1	6	91.05	8.71	6	100.00	0.00	-	-	0.300	6	65.22	13.24	6	66.88	20.95	-	-	0.885	6	25.85	13.64	6	33.13	20.96	-	-	0.825
Habitat Means			84.13	9.15		94.70	2.75		-			49.55	12.00		74.40	12.48		-			34.60	15.70		20.28	10.80		+	
Fisher's		Power	---		Power-50%		---	P-value		0.027	Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.036
Stouffer's		Power	---		Power-50%		---	P-value		0.005	Power	0.082		Power-50%		0.519	P-value		0.110	Power	0.037		Power-50%		0.408	P-value		0.427
506C/506	2	6	72.30	13.80	7	82.86	7.23	-	-	0.454	6	64.62	14.75	7	74.29	12.85	-	-	0.558	6	7.73	4.79	7	8.57	8.16	-	-	0.818
1598C/1598	2	5	63.26	18.20	5	98.76	0.97	-	-	0.130	5	18.28	9.95	5	49.02	16.81	-	-	0.217	5	45.02	20.52	5	49.76	17.48	-	-	0.869
846C/846	2	6	88.98	7.83	5	87.02	5.63	-	+	0.783	6	10.85	5.95	5	85.28	4.84	-	-	0.000	6	78.15	13.54	5	1.76	1.76	-	+	0.000
1650C/1650	2	6	76.07	10.22	6	99.80	0.20	-	-	0.009	6	68.77	13.72	6	81.88	13.49	-	-	0.314	6	7.30	4.01	6	17.93	13.52	-	-	0.497
Habitat Means			75.18	12.50		92.13	3.50		-			40.65	11.13		72.62	12.00		-			34.55	10.70		19.52	10.25		-	
Fisher's		Power	---		Power-50%		---	P-value		0.009	Power	---		Power-50%		---	P-value		0.000	Power	0.010		Power-50%		0.731	P-value		0.620xy
Stouffer's		Power	---		Power-50%		---	P-value		0.024	Power	---		Power-50%		---	P-value		0.007	Power	0.015		Power-50%		0.490	P-value		0.751
506C/506	3	5	45.28	11.51	6	56.05	13.44	-	-	0.566	5	25.28	12.28	6	50.83	16.11	-	-	0.356	5	20.00	12.35	6	5.22	5.22	-	+	0.323
1598C/1598	3	5	65.52	9.39	5	77.52	7.38	-	-	0.483	5	23.02	8.43	5	33.28	9.04	-	-	0.416	5	42.52	14.96	5	44.28	11.80	-	-	1.000
846C/846	3	5	83.78	2.33	5	74.00	15.66	-	+	0.670	5	10.02	3.70	5	52.50	19.05	-	-	0.106	5	73.76	4.87	5	21.50	18.53	-	-	0.031
1650C/1650	3	6	72.10	14.02	6	96.47	1.46	-	-	0.177	6	61.28	13.89	6	80.25	8.33	-	-	0.290	6	10.85	6.72	6	16.28	8.22	-	-	0.606
Habitat Means			66.68	9.30		76.03	9.50		-			29.90	9.58		54.23	13.13		-			36.80	9.75		21.83	10.92		-	
Fisher's		Power	0.149		Power-50%		0.821	P-value		0.200	Power	---		Power-50%		---	P-value		0.038	Power	---		Power-50%		---	P-value		0.079
Stouffer's		Power	0.100		Power-50%		0.617	P-value		0.194	Power	---		Power-50%		---	P-value		0.072	Power	0.041		Power-50%		0.519	P-value		0.317

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.5. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. June 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	1.25	1.25	0	--	--	-		---	6	0.63	0.63	0	--	--	-		---	6	0.00	0.00	0	--	--	-		---
2397C/20809	1	6	14.38	10.88	6	0.22	0.22	-	+	0.240	6	14.38	10.88	6	0.00	0.00	-	+	0.205	6	19.18	15.20	6	11.47	11.47	-	+	0.433
Habitat Means			7.85	6.10		0.20	0.20		+			7.50	5.75		0.00	0.00		+			9.60	7.60		11.50	11.50		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- yz
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	5	3.78	2.21	0	--	--	-		---	5	2.76	1.50	0	--	--	-		---	5	4.52	2.25	0	--	--	-		---
2397C/20809	2	5	23.78	13.05	6	1.48	1.00	-	-	0.064	5	22.04	12.33	6	1.48	1.00	-	+	0.066	5	14.52	3.96	6	0.43	0.27	-	+	0.000
Habitat Means			13.80	7.65		1.50	1.00		+			12.40	6.90		1.50	1.00		+			9.50	3.15		0.40	0.30		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	6	23.08	11.19	4	32.83	13.30	-	-	0.579	6	5.03	4.22	4	29.70	14.43	-	-	0.101	6	17.78	6.55	4	2.20	1.06	-	+	0.170
Habitat Means			23.10	11.20		32.80	13.30		-			5.00	4.20		29.70	14.40		-			17.80	6.60		2.20	1.10		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	6	17.72	16.49	0	--	--	-		---	6	4.60	3.49	0	--	--	-		---	6	13.13	13.13	0	--	--	-		---
2397C/20809	1	6	65.45	15.35	6	74.18	16.28	-	-	0.456	6	65.33	15.34	6	74.18	16.28	-	-	0.454	6	0.10	0.10	6	0.00	0.00	-	-	0.363
Habitat Means			41.60	15.95		74.20	16.30		-			34.95	9.40		74.20	16.30		-			6.60	6.60		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	2	5	91.76	3.69	0	--	--	-		---	5	35.52	20.05	0	--	--	-		---	5	56.26	23.04	0	--	--	-		---
2397C/20809	2	5	61.78	11.51	6	98.13	1.20	-	-	0.001	5	60.52	12.39	6	98.13	1.20	-	-	0.002	5	1.26	0.97	6	0.00	0.00	-	+	0.207
Habitat Means			76.80	7.60		98.10	1.20		-			48.00	16.25		98.10	1.20		-			28.80	12.00		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	6	49.37	9.63	4	65.02	12.51	-	-	0.321	6	25.60	10.01	4	65.02	12.51	-	-	0.048	6	23.77	15.28	4	0.00	0.00	-	+	0.154
Habitat Means			49.40	9.60		65.00	12.50		-			25.60	10.00		65.00	12.50		-			23.80	15.30		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.6. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. August 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	5.03	1.27	5	6.74	6.42	-	-	0.640	3	3.77	1.27	5	6.20	5.88	-	-	0.741	3	2.10	1.50	5	0.26	0.26	-	-	0.261
2397C/20809	1	9	12.02	8.17	9	5.56	3.19	-	+	0.431	9	11.88	8.19	9	5.28	2.96	-	-	0.475	9	19.32	8.32	9	7.23	3.17	-	+	0.137
Habitat Means			8.50	4.75		6.15	4.80		-			7.85	4.75		5.75	4.45		-			10.70	4.90		3.75	1.75		+	
Fisher's		Power	0.167		Power-50%		0.534	P-value		0.428	Power	0.136		Power-50%		0.558	P-value		0.434	Power	---		Power-50%		---	P-value		0.034
Stouffer's		Power	0.180		Power-50%		0.591	P-value		0.411	Power	0.152		Power-50%		0.609	P-value		0.393	Power	---		Power-50%		---	P-value		0.021
P15.1C/P15.1	2	3	17.50	17.50	5	0.00	0.00	-	+	0.423	3	0.00	0.00	5	0.00	0.00	-	o	1.000	3	1.70	1.12	5	3.78	2.21	-	-	0.713
2397C/20809	2	8	43.78	14.61	11	8.53	4.79	-	+	0.027	8	43.78	14.61	11	7.85	4.71	-	+	0.024	8	24.99	11.58	11	8.65	2.54	-	-	0.192
Habitat Means			30.65	16.05		4.25	2.40		+			21.90	7.30		3.95	2.35		+			13.35	6.35		6.25	2.35		-	
Fisher's		Power	---		Power-50%		---	P-value		0.020	Power	---		Power-50%		---	P-value		0.036	Power	0.210		Power-50%		0.403	P-value		0.234
Stouffer's		*Power*	---		Power-50%		---	P-value		0.017	Power	---		Power-50%		---	P-value		0.055	Power	0.137		Power-50%		0.437	P-value		0.254
P15.1C/P15.1	3	0	--	--	2	6.25	6.25	-		---	0	--	--	2	1.90	1.90	-		---	0	--	--	2	17.55	3.75	-		---
2397C/20809	3	8	27.19	12.71	6	25.43	16.02	-	+	0.941	8	26.56	12.84	6	24.82	16.18	-	-	0.928	8	13.91	6.09	6	20.43	14.38	-	-	0.741
Habitat Means			27.20	12.70		15.85	11.15		-			26.60	12.80		13.35	9.05		+			13.90	6.10		19.00	9.20		-	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	3	52.93	19.33	5	67.16	19.83	-	-	0.696	3	52.93	19.33	5	66.66	19.63	-	-	0.719	3	0.00	0.00	5	0.50	0.50	-	-	0.374
2397C/20809	1	9	64.80	8.81	9	84.04	4.54	-	-	0.043	9	64.80	8.81	9	84.04	4.54	-	-	0.043	9	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			58.85	14.05		75.60	12.15		-			58.85	14.05		75.35	12.05		-			0.00	0.00		0.25	0.25		-	
Fisher's		Power	---		Power-50%		---	P-value		0.044	Power	---		Power-50%		---	P-value		0.046	Power	---		Power-50%		---	P-value		0.315
Stouffer's		Power	---		Power-50%		---	P-value		0.044	Power	---		Power-50%		---	P-value		0.046	Power	---		Power-50%		---	P-value		0.265
P15.1C/P15.1	2	3	61.70	19.16	5	89.74	4.63	-	-	0.267	3	49.20	27.34	5	89.74	4.63	-	-	0.192	3	12.50	12.50	5	0.00	0.00	-	+	0.423
2397C/20809	2	8	31.26	11.44	11	82.85	5.46	-	-	0.001	8	31.26	11.44	11	82.74	5.46	-	-	0.001	8	0.00	0.00	11	0.12	0.12	-	-	0.341
Habitat Means			46.50	15.30		86.30	5.05		-			40.25	19.35		86.20	5.05		-			6.25	6.25		0.05	0.05		-	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.404 y
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.458
P15.1C/P15.1	3	0	--	--	2	75.05	11.25	-		---	0	--	--	2	72.55	13.75	-		---	0	--	--	2	2.50	2.50	-		---
2397C/20809	3	8	29.46	8.70	6	54.18	16.89	-	-	0.171	8	20.31	9.35	6	53.98	16.85	-	-	0.062	8	9.25	5.24	6	0.22	0.22	-	-	0.074
Habitat Means			29.50	8.70		64.65	14.10		-			20.30	9.40		63.30	15.35		-			9.20	5.20		1.35	1.35		+	
Fisher's		Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z	Power	---		Power-50%		---	P-value		--- z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.7. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. June 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	6.05	6.05	6	6.05	3.86	-	-	0.791	6	6.05	6.05	6	6.05	3.86	-	-	0.791	6	2.52	1.48	6	1.05	0.82	-	+	0.465
1642C/833	1	6	2.08	2.08	4	2.50	1.44	-	-	0.581	6	2.08	2.08	4	1.25	1.25	-	+	0.966	6	0.43	0.27	4	15.65	10.37	-	-	0.107
4537C/979	1	6	62.32	14.70	6	1.05	0.68	-	+	0.008	6	60.23	14.70	6	0.00	0.00	-	+	0.007	6	2.12	0.62	6	3.97	3.97	-	-	0.628
Habitat Means			23.50	7.63		3.23	2.00		-			22.80	7.63		2.47	1.73		+			1.67	0.80		6.93	5.07		-	
Fisher's		Power	0.031		Power-50%		0.473	P-value		0.631xy	Power	---		Power-50%		---	P-value		0.032	Power	0.456		Power-50%		0.628	P-value		0.191
Stouffer's		Power	0.000		Power-50%		0.630	P-value		0.970	Power	---		Power-50%		---	P-value		0.014	Power	0.230		Power-50%		0.669	P-value		0.162
19C/19	2	6	7.92	4.10	6	32.93	14.38	-	-	0.151	6	3.35	1.93	6	24.18	12.48	-	-	0.168	6	20.87	10.11	6	13.57	5.59	-	+	0.682
1642C/833	2	6	35.22	14.36	4	16.57	11.54	-	+	0.326	6	34.38	14.61	4	7.83	7.40	-	+	0.135	6	9.60	9.34	4	55.63	17.45	-	-	0.020
4537C/979	2	6	68.37	6.24	6	23.97	13.52	-	+	0.013	6	51.50	14.23	6	11.27	7.01	-	+	0.037	6	0.43	0.27	6	3.55	1.23	-	-	0.063
Habitat Means			37.17	8.23		24.50	13.13		+			29.77	10.23		14.43	8.97		+			10.30	6.57		24.27	8.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.032	Power	---		Power-50%		---	P-value		0.035	Power	---		Power-50%		---	P-value		0.009
Stouffer's		Power	---		Power-50%		---	P-value		0.015	Power	---		Power-50%		---	P-value		0.018	Power	---		Power-50%		---	P-value		0.005
19C/19	3	6	24.17	13.55	6	51.27	18.86	-	-	0.242	6	13.35	9.43	6	33.77	11.52	-	-	0.181	6	6.47	3.46	6	11.27	5.94	-	-	0.446
1642C/833	3	6	45.03	12.99	4	17.53	12.99	-	+	0.194	6	41.27	12.38	4	15.65	13.59	-	+	0.207	6	6.47	3.11	4	30.03	21.66	-	-	0.241
4537C/979	3	4	37.20	15.90	6	66.23	17.60	-	-	0.292	4	20.95	8.25	6	47.63	14.01	-	-	0.271	4	3.75	2.98	6	0.63	0.63	-	+	0.254
Habitat Means			35.47	14.17		45.00	16.50		-			25.23	10.03		32.37	13.03		-			5.60	3.20		13.97	9.40		-	
Fisher's		Power	0.032		Power-50%		0.325	P-value		0.218	Power	0.072		Power-50%		0.621	P-value		0.172	Power	0.136		Power-50%		0.359	P-value		0.277
Stouffer's		Power	0.017		Power-50%		0.350	P-value		0.286	Power	0.017		Power-50%		0.646	P-value		0.253	Power	0.034		Power-50%		0.413	P-value		0.578

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	91.47	5.97	6	92.93	3.60	-	-	0.972	6	91.47	5.97	6	92.93	3.60	-	-	0.972	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	1	6	97.30	2.24	4	81.90	11.41	-	-	0.075	6	97.30	2.24	4	81.90	11.41	-	+	0.075	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	1	6	35.65	15.06	6	95.00	4.52	-	-	0.005	6	35.65	15.06	6	95.00	4.52	-	-	0.005	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			74.83	7.77		89.93	6.50		-			74.83	7.77		89.93	6.50		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.037x	Power	---		Power-50%		---	P-value		0.037x	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.068	Power	---		Power-50%		---	P-value		0.068	Power	---		Power-50%		---	P-value		0.500
19C/19	2	6	71.28	14.18	6	53.57	12.95	-	+	0.393	6	71.28	14.18	6	50.65	12.47	-	-	0.333	6	0.00	0.00	6	2.92	2.92	-	-	0.363
1642C/833	2	6	55.23	13.35	4	27.85	13.58	-	+	0.182	6	55.23	13.35	4	27.85	13.58	-	+	0.182	6	0.00	0.00	4	0.00	0.00	-	o	1.000
4537C/979	2	6	31.27	6.31	6	72.52	12.50	-	-	0.014	6	30.63	6.18	6	72.52	12.50	-	-	0.013	6	0.63	0.43	6	0.00	0.00	-	+	0.182
Habitat Means			52.60	11.30		51.33	13.03		+			52.37	11.27		50.37	12.87		+			0.20	0.13		0.97	0.97		+	
Fisher's		Power	0.100		Power-50%		0.694	P-value		0.234x	Power	0.102		Power-50%		0.664	P-value		0.211x	Power	0.006		Power-50%		0.012	P-value		0.361 y
Stouffer's		Power	0.005		Power-50%		0.675	P-value		0.884	Power	0.002		Power-50%		0.675	P-value		0.883	Power	0.030		Power-50%		0.094	P-value		0.189
19C/19	3	6	69.38	16.32	6	37.52	16.10	-	+	0.144	6	69.38	16.32	6	37.52	16.10	-	+	0.144	6	0.00	0.00	6	0.00	0.00	-	o	1.000
1642C/833	3	6	48.57	14.55	4	52.53	21.19	-	-	0.964	6	47.73	14.81	4	52.53	21.19	-	-	0.941	6	0.83	0.83	4	0.00	0.00	-	-	0.363
4537C/979	3	4	28.45	16.76	6	33.17	17.15	-	-	0.739	4	28.45	16.76	6	32.95	16.99	-	-	0.747	4	0.00	0.00	6	0.22	0.22	-	-	0.363
Habitat Means			48.83	15.90		41.07	18.17		-			48.53	15.97		41.00	18.10		-			0.27	0.27		0.07	0.07		-	
Fisher's		Power	0.009		Power-50%		0.707	P-value		0.731 y	Power	0.008		Power-50%		0.722	P-value		0.727 y	Power	---		Power-50%		---	P-value		0.519
Stouffer's		Power	0.014		Power-50%		0.616	P-value		0.532	Power	0.014		Power-50%		0.649	P-value		0.530	Power	---		Power-50%		---	P-value		0.628

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.8. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. August 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	3.25	1.91	6	22.93	10.82	-	-	0.123	6	2.10	1.15	6	19.60	8.78	-	-	0.095	6	4.18	3.93	6	5.85	2.74	-	-	0.557
1642C/833	1	9	10.99	10.05	7	20.91	8.72	-	-	0.312	9	10.99	10.05	7	16.99	8.57	-	-	0.530	9	0.42	0.30	7	19.84	9.73	-	-	0.056
4537C/979	1	6	19.38	10.55	9	0.00	0.00	-	+	0.036	6	18.55	9.75	9	0.00	0.00	-	+	0.032	6	1.05	1.05	9	3.07	1.22	-	-	0.210
Habitat Means			11.20	7.53		14.60	6.50		-			10.57	7.03		12.20	5.80		-			1.90	1.77		9.60	4.53		-	
Fisher's		Power	0.339		Power-50%		0.381	P-value		0.155x	Power	0.264		Power-50%		0.379	P-value		0.186x	Power	---		Power-50%		---	P-value		0.027
Stouffer's		Power	0.000		Power-50%		0.438	P-value		0.808	Power	0.000		Power-50%		0.423	P-value		0.855	Power	---		Power-50%		---	P-value		0.017
19C/19	2	6	13.97	11.54	6	34.03	15.79	-	-	0.311	6	1.27	0.79	6	28.50	12.42	-	-	0.073	6	11.67	6.31	6	1.48	0.95	-	+	0.203
1642C/833	2	6	43.55	9.33	7	35.59	8.29	-	+	0.447	6	43.55	9.33	7	28.09	5.80	-	+	0.174	6	10.02	4.52	7	38.24	4.50	-	-	0.002
4537C/979	2	6	52.73	13.16	9	6.40	4.92	-	+	0.001	6	20.67	7.50	9	4.87	4.87	-	+	0.011	6	6.70	2.35	9	4.72	1.97	-	+	0.548
Habitat Means			36.77	11.33		25.33	9.67		+			21.87	5.87		20.50	7.70		+			9.47	4.40		14.80	2.50		+	
Fisher's		Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.018x	Power	0.184		Power-50%		0.673	P-value		0.305xy
Stouffer's		Power	---		Power-50%		---	P-value		0.002	Power	---		Power-50%		---	P-value		0.010	Power	0.016		Power-50%		0.659	P-value		0.746
19C/19	3	5	27.02	15.59	5	39.62	21.60	-	-	0.664	5	24.76	14.85	5	21.72	12.90	-	+	0.927	5	2.02	1.02	5	26.76	15.42	-	-	0.194
1642C/833	3	8	46.01	10.61	5	41.76	18.89	-	+	0.670	8	28.21	4.81	5	26.52	14.26	-	+	0.555	8	9.41	3.17	5	3.50	2.45	-	+	0.210
4537C/979	3	5	38.50	16.02	7	53.94	13.24	-	-	0.376	5	23.76	16.33	7	24.33	12.27	-	-	0.892	5	8.00	4.29	7	0.54	0.54	-	-	0.058
Habitat Means			37.17	14.07		45.10	17.90		-			25.60	12.00		24.17	13.17		+			6.47	2.83		10.27	6.13		+	
Fisher's		Power	0.040		Power-50%		0.430	P-value		0.383	Power	0.076		Power-50%		0.533	P-value		0.508	Power	---		Power-50%		---	P-value		0.067 y
Stouffer's		Power	0.047		Power-50%		0.472	P-value		0.257	Power	0.095		Power-50%		0.551	P-value		0.424	Power	---		Power-50%		---	P-value		0.032

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
19C/19	1	6	92.72	4.03	6	71.27	10.92	-	+	0.097	6	92.72	4.03	6	70.23	10.41	-	+	0.040	6	0.00	0.00	6	1.05	1.05	-	-	0.363
1642C/833	1	9	88.62	10.15	7	59.30	13.92	-	+	0.095	9	88.62	10.15	7	59.30	13.92	-	+	0.095	9	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	1	6	76.48	11.26	9	96.96	1.22	-	-	0.029	6	76.48	11.26	9	96.96	1.22	-	-	0.029	6	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			85.93	8.50		75.87	8.67		+			85.93	8.50		75.50	8.50		+			0.00	0.00		0.37	0.37		-	
Fisher's		Power	---		Power-50%		---	P-value		0.058x	Power	---		Power-50%		---	P-value		0.030x	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.161		Power-50%		0.942	P-value		0.726	Power	0.043		Power-50%		0.949	P-value		0.691	Power	---		Power-50%		---	P-value		0.406
19C/19	2	6	74.38	12.62	6	64.50	16.08	-	+	0.672	6	74.18	12.67	6	61.17	15.64	-	+	0.584	6	0.22	0.22	6	3.33	2.21	-	-	0.239
1642C/833	2	6	46.48	9.82	7	26.21	8.58	-	+	0.142	6	46.48	9.82	7	26.21	8.58	-	+	0.142	6	0.00	0.00	7	0.00	0.00	-	o	1.000
4537C/979	2	6	40.65	13.62	9	88.90	5.20	-	-	0.002	6	40.23	13.51	9	88.90	5.20	-	-	0.002	6	0.43	0.27	9	0.00	0.00	-	+	0.175
Habitat Means			53.87	12.00		59.87	9.97		+			53.63	12.00		58.77	9.80		+			0.20	0.17		1.10	0.70		+	
Fisher's		Power	0.148		Power-50%		0.774	P-value		0.280xy	Power	0.162		Power-50%		0.806	P-value		0.257xy	Power	0.031		Power-50%		0.117	P-value		0.368 y
Stouffer's		Power	0.013		Power-50%		0.756	P-value		0.959	Power	0.001		Power-50%		0.785	P-value		0.959	Power	0.052		Power-50%		0.206	P-value		0.203
19C/19	3	5	71.04	14.75	5	33.66	17.68	-	+	0.201	5	65.54	17.57	5	32.66	18.00	-	-	0.274	5	5.50	5.50	5	1.00	0.61	-	+	0.699
1642C/833	3	8	44.59	8.70	5	54.76	20.95	-	-	0.542	8	44.59	8.70	5	54.76	20.95	-	-	0.542	8	0.00	0.00	5	0.00	0.00	-	o	1.000
4537C/979	3	5	20.50	10.07	7	45.54	13.20	-	-	0.303	5	20.50	10.07	7	45.54	13.20	-	-	0.303	5	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			45.37	11.20		44.67	17.30		-			43.53	12.13		44.33	17.40		-			1.83	1.83		0.33	0.20		-	
Fisher's		Power	0.017		Power-50%		0.550	P-value		0.359 y	Power	0.016		Power-50%		0.502	P-value		0.351	Power	0.007		Power-50%		---	P-value		0.560
Stouffer's		Power	0.007		Power-50%		0.575	P-value		0.205	Power	0.030		Power-50%		0.510	P-value		0.192	Power	0.000		Power-50%		---	P-value		0.460

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.9. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. June 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; - = control > oiled; + = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	46.95	11.94	6	34.53	9.71	-	+	0.384	6	44.43	12.88	6	29.67	10.08	-	+	0.344	6	7.10	1.40	6	27.70	8.83	-	-	0.073
14.2C/14.2	1	6	28.37	15.57	6	0.42	0.42	-	+	0.080	6	23.55	15.93	6	0.00	0.00	-	+	0.191	6	23.15	10.05	6	14.45	8.43	-	+	0.602
62762C/50983	1	6	28.77	8.97	5	51.38	14.18	-	-	0.186	6	25.17	7.83	5	49.40	13.79	-	-	0.138	6	53.65	11.20	5	13.28	4.53	-	+	0.012
Habitat Means			34.73	12.17		28.77	8.10		+			31.07	12.20		26.37	7.97		-			28.00	7.57		18.50	7.23		+	
Fisher's		Power	0.280		Power-50%		0.362	P-value		0.127	Power	0.088		Power-50%		0.663	P-value		0.213	Power	---		Power-50%		---	P-value		0.046x
Stouffer's		*Power*	*0.026*		Power-50%		0.310	P-value		0.678	Power	0.003		Power-50%		0.601	P-value		0.763	Power	---		Power-50%		---	P-value		0.026
14.1C/14.1	2	6	64.17	12.29	6	43.35	7.98	-	+	0.159	6	36.37	13.43	6	23.23	10.35	-	+	0.356	6	23.12	8.30	6	12.97	2.53	-	+	0.563
14.2C/14.2	2	6	85.85	3.76	4	27.70	13.57	-	+	0.003	6	66.63	14.40	4	25.70	12.49	-	+	0.132	6	13.17	4.00	4	13.98	4.64	-	-	0.840
62762C/50983	2	6	82.32	8.14	3	40.00	30.55	-	+	0.177	6	73.77	9.52	3	40.00	30.55	-	+	0.287	6	12.53	6.21	3	30.83	15.83	-	-	0.388
Habitat Means			77.47	8.07		37.03	17.40		+			58.93	12.43		29.63	17.83		+			16.27	6.17		19.27	7.63		-	
Fisher's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.047	Power	0.208		Power-50%		0.187	P-value		0.460
Stouffer's		Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.048	Power	0.304		Power-50%		0.162	P-value		0.247
14.1C/14.1	3	6	59.05	15.47	6	75.77	14.28	-	-	0.372	6	38.67	11.14	6	56.07	14.07	-	-	0.359	6	29.47	12.82	6	2.53	1.21	-	-	0.023
14.2C/14.2	3	2	99.40	0.60	5	74.26	15.27	-	+	0.230	2	11.90	11.90	5	60.32	13.65	-	-	0.083	2	0.00	0.00	5	4.96	3.28	-	-	0.186
62762C/50983	3	6	81.08	10.47	4	51.25	15.70	-	+	0.137	6	8.22	2.29	4	43.75	9.16	-	-	0.002	6	11.42	5.88	4	21.88	13.82	-	-	0.712
Habitat Means			79.87	8.87		67.13	15.10		+			19.60	8.43		53.40	12.33		-			13.63	6.23		9.80	6.10		-	
Fisher's		Power	0.155		Power-50%		0.658	P-value		0.120	Power	---		Power-50%		---	P-value		0.001	Power	0.069		Power-50%		0.163	P-value		0.336xy
Stouffer's		Power	---		Power-50%		---	P-value		0.074	Power	---		Power-50%		---	P-value		0.000	Power	0.063		Power-50%		0.161	P-value		0.473

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	46.03	11.62	6	37.78	9.09	-	+	0.592	6	46.03	11.62	6	37.78	9.09	-	+	0.592	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	48.58	16.59	6	85.18	8.38	-	-	0.090	6	48.58	16.59	6	85.18	8.38	-	-	0.090	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	1	6	17.65	8.79	5	35.36	12.80	-	-	0.265	6	17.65	8.79	5	35.36	12.80	-	-	0.265	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			37.43	12.33		52.80	10.10		-			37.43	12.33		52.80	10.10		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.090	Power	---		Power-50%		---	P-value		0.090	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.088	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	2	6	12.75	5.60	6	43.72	8.46	-	-	0.010	6	12.75	5.60	6	43.72	8.46	-	-	0.010	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	1.07	0.61	4	58.40	14.35	-	-	0.015	6	1.07	0.61	4	58.40	14.35	-	-	0.015	6	0.00	0.00	4	0.00	0.00	-	o	1.000
62762C/50983	2	6	5.23	1.97	3	29.17	17.34	-	-	0.176	6	5.23	1.97	3	29.17	17.34	-	-	0.176	6	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			6.37	2.73		43.77	13.40		-			6.37	2.73		43.77	13.40		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	11.53	6.00	6	21.72	14.57	-	-	0.621	6	11.53	6.00	6	21.72	14.57	-	-	0.621	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	3	2	0.65	0.65	5	20.82	12.38	-	-	0.215	2	0.65	0.65	5	20.82	12.38	-	-	0.215	2	0.00	0.00	5	0.00	0.00	-	o	1.000
62762C/50983	3	6	7.55	4.69	4	26.87	13.86	-	-	0.103	6	7.55	4.69	4	25.62	13.59	-	-	0.132	6	0.00	0.00	4	1.25	0.72	-	-	0.182
Habitat Means			6.60	3.80		23.13	13.63		-			6.60	3.80		22.70	13.53		-			0.00	0.00		0.43	0.23		-	
Fisher's		Power	---		Power-50%		---	P-value		0.047	Power	---		Power-50%		---	P-value		0.057	Power	0.000		Power-50%		---	P-value		0.271
Stouffer's		Power	---		Power-50%		---	P-value		0.023	Power	---		Power-50%		---	P-value		0.031	Power	0.250		Power-50%		---	P-value		0.111

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.10. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Sheltered Rocky. August 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	62.53	13.88	6	41.83	14.57	-	+	0.357	6	61.90	13.89	6	36.10	15.98	-	+	0.267	6	9.88	4.34	6	24.37	13.82	-	-	0.371
14.2C/14.2	1	6	28.28	8.78	6	0.42	0.42	-	+	0.013	6	26.62	8.53	6	0.00	0.00	-	+	0.014	6	25.10	7.58	6	13.35	7.93	-	+	0.168
62762C/50983	1	9	17.71	11.02	9	8.54	4.69	-	+	0.636	9	16.16	10.74	9	8.54	4.69	-	+	0.694	9	48.92	11.05	9	24.18	9.46	-	+	0.102
Habitat Means			36.17	11.23		16.90	6.57		-			34.90	11.07		14.87	6.90		-			27.97	7.67		20.67	10.40		+	
Fisher's		Power	---		Power-50%		---	P-value		0.015	Power	---		Power-50%		---	P-value		0.013	Power	---		Power-50%		---	P-value		0.079
Stouffer's		Power	---		Power-50%		---	P-value		0.081	Power	---		Power-50%		---	P-value		0.084	Power	---		Power-50%		---	P-value		0.051
14.1C/14.1	2	6	45.12	16.49	6	36.63	15.53	-	+	0.569	6	35.28	14.58	6	33.87	15.69	-	+	0.879	6	46.13	14.50	6	24.27	14.14	-	+	0.315
14.2C/14.2	2	6	41.52	11.92	6	17.10	10.99	-	+	0.076	6	35.67	12.72	6	6.68	4.52	-	+	0.020	6	26.78	7.18	6	7.92	3.50	-	-	0.026
62762C/50983	2	9	63.42	11.48	8	43.33	11.98	-	+	0.296	9	51.53	11.41	8	43.16	12.02	-	+	0.661	9	12.64	7.99	8	31.74	8.87	-	-	0.098
Habitat Means			50.00	13.30		32.33	12.83		+			40.83	12.90		27.93	10.73		+			28.50	9.90		21.30	8.83		+	
Fisher's		Power	---		Power-50%		---	P-value		0.045	Power	---		Power-50%		---	P-value		0.043	Power	---		Power-50%		---	P-value		0.051x
Stouffer's		Power	---		Power-50%		---	P-value		0.052	Power	0.289		Power-50%		0.747	P-value		0.134	Power	0.001		Power-50%		0.487	P-value		0.722
14.1C/14.1	3	6	54.60	15.02	6	73.22	8.70	-	-	0.407	6	34.60	13.33	6	33.00	5.88	-	-	0.925	6	26.68	12.63	6	11.07	5.30	-	+	0.363
14.2C/14.2	3	3	48.40	11.32	6	52.10	14.80	-	-	0.890	3	1.67	1.67	6	28.77	7.39	-	-	0.015	3	11.13	4.78	6	9.40	2.30	-	+	0.727
62762C/50983	3	9	63.57	10.47	5	94.26	2.21	-	-	0.039	9	17.10	6.61	5	94.26	2.21	-	-	0.000	9	13.23	6.25	5	5.00	2.09	-	+	0.495
Habitat Means			55.53	12.27		73.20	8.57		-			17.80	7.20		52.03	5.17		-			17.00	7.90		8.50	3.23		+	
Fisher's		Power	---		Power-50%		---	P-value		0.049	Power	---		Power-50%		---	P-value		0.000	Power	0.174		Power-50%		0.355	P-value		0.222
Stouffer's		Power	---		Power-50%		---	P-value		0.015	Power	---		Power-50%		---	P-value		0.000	Power	0.144		Power-50%		0.302	P-value		0.163

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
14.1C/14.1	1	6	27.63	13.74	6	33.82	13.48	-	-	0.736	6	27.63	13.74	6	33.82	13.48	-	-	0.736	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	1	6	46.67	15.07	6	86.27	7.94	-	-	0.029	6	45.62	15.66	6	86.27	7.94	-	-	0.032	6	1.05	1.05	6	0.00	0.00	-	+	0.363
62762C/50983	1	9	33.39	9.27	9	67.30	10.25	-	-	0.022	9	33.39	9.27	9	67.30	10.25	-	-	0.022	9	0.00	0.00	9	0.00	0.00	-	o	1.000
Habitat Means			35.90	12.70		62.47	10.57		-			35.53	12.90		62.47	10.57		-			0.37	0.37		0.00	0.00		+	
Fisher's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.003	Power	---		Power-50%		---	P-value		0.398
14.1C/14.1	2	6	8.78	3.09	6	39.15	17.49	-	-	0.090	6	8.78	3.09	6	39.15	17.49	-	-	0.090	6	0.00	0.00	6	0.00	0.00	-	o	1.000
14.2C/14.2	2	6	31.75	10.24	6	75.02	13.17	-	-	0.022	6	31.75	10.24	6	75.02	13.17	-	-	0.022	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	2	9	23.98	9.42	8	24.96	7.46	-	-	*0.928*	*9*	*23.98*	*9.42*	*8*	*24.96*	*7.46*	-	-	*0.928*	9	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			21.53	7.57		46.40	12.73		-			21.53	7.57		46.40	12.73		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.010	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.516		Power-50%		0.488	P-value		0.111	Power	0.510		Power-50%		0.527	P-value		0.111	Power	---		Power-50%		---	P-value		0.500
14.1C/14.1	3	6	18.78	4.87	6	15.77	3.68	-	-	0.942	6	18.78	4.87	6	12.02	4.67	-	+	0.492	6	0.00	0.00	6	3.75	2.39	-	-	0.176
14.2C/14.2	3	3	40.50	16.04	6	38.58	12.83	-	-	0.913	3	40.50	16.04	6	38.58	12.83	-	+	0.913	3	0.00	0.00	6	0.00	0.00	-	o	1.000
62762C/50983	3	9	23.22	7.88	5	0.76	0.50	-	+	0.016	9	22.11	7.66	5	0.76	0.50	-	+	0.017	9	1.11	1.22	5	0.00	0.00	-	+	0.347
Habitat Means			27.50	9.60		18.40	5.67		+			27.13	9.53		17.13	6.00		+			0.37	0.37		1.27	0.80		-	
Fisher's		Power	---		Power-50%		---	P-value		0.048	Power	---		Power-50%		---	P-value		0.030	Power	0.022		Power-50%		---	P-value		0.356
Stouffer's		Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.008	Power	0.000		Power-50%		---	P-value		0.683

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.11. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. July 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	4.80	4.54	6	6.88	4.13	-	-	0.601
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.42	0.42	6	0.00	0.00	-	+	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.22	0.22	6	5.00	5.00	-	-	0.464
Habitat Means			0.13	0.13		0.00	0.00		-			0.00	0.00		0.00	0.00		o			1.67	1.57		3.97	3.03		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.655	Power	0.009		Power-50%		0.003	P-value		0.348
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.500	Power	0.029		Power-50%		0.013	P-value		0.221
50389C/50389	2	6	0.22	0.22	6	1.05	1.05	-	-	0.627	6	0.22	0.22	6	1.05	1.05	-	-	0.627	6	0.42	0.42	6	1.47	0.82	-	-	0.264
51091C/51091	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	2	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.00	0.00	6	0.42	0.42	-	-	0.363	6	0.63	0.63	6	0.00	0.00	-	-	0.363
Habitat Means			0.07	0.07		0.63	0.63		-			0.07	0.07		0.63	0.63		-			0.33	0.33		0.30	0.27		-	
Fisher's		Power	---		Power-50%		---	P-value		0.166	Power	---		Power-50%		---	P-value		0.166	Power	0.013		Power-50%		---	P-value		0.442
Stouffer's		Power	---		Power-50%		---	P-value		0.092	Power	---		Power-50%		---	P-value		0.092	Power	0.002		Power-50%		---	P-value		0.484
50389C/50389	3	6	0.22	0.22	6	3.97	2.20	-	-	0.121	6	0.22	0.22	6	2.50	2.04	-	-	0.313	6	2.08	2.08	6	3.55	1.39	-	-	0.274
51091C/51091	3	6	0.22	0.22	6	5.00	3.16	-	-	0.239	6	0.22	0.22	6	4.17	2.71	-	-	0.251	6	0.00	0.00	6	1.05	0.82	-	-	0.202
62802C/50226	3	6	8.57	3.47	6	22.92	15.51	-	-	0.663	6	4.80	3.89	6	14.38	8.78	-	-	0.425	6	1.47	0.82	6	3.55	1.66	-	-	0.499
Habitat Means			3.00	1.30		10.63	6.97		-			1.73	1.43		7.03	4.50		-			1.20	0.97		2.77	1.30		-	
Fisher's		Power	---		Power-50%		---	P-value		0.060	Power	---		Power-50%		---	P-value		0.090	Power	---		Power-50%		---	P-value		0.079
Stouffer's		Power	---		Power-50%		---	P-value		0.039	Power	---		Power-50%		---	P-value		0.047	Power	---		Power-50%		---	P-value		0.044

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	95.22	4.55	6	93.13	4.13	-	+	0.600	6	70.02	16.10	6	65.85	14.92	-	-	0.673	6	25.22	16.71	6	27.30	15.89	-	-	0.788
51091C/51091	1	6	100.00	0.00	6	100.00	0.00	-	o	1.000	6	53.57	15.22	6	3.37	1.23	-	+	0.020	6	46.48	15.23	6	96.70	1.24	-	-	0.020
62802C/50226	1	6	99.38	0.42	6	94.58	4.93	-	-	0.448	6	39.20	18.29	6	17.30	10.82	-	+	0.313	6	60.23	18.24	6	77.30	15.62	-	-	0.527
Habitat Means			98.20	1.67		95.90	3.00		-			54.27	16.53		28.87	8.97		+			43.97	16.70		67.10	10.90		-	
Fisher's		Power	0.208		Power-50%		1.000	P-value		0.341	Power	---		Power-50%		---	P-value		0.020	Power	---		Power-50%		---	P-value		0.033
Stouffer's		Power	0.218		Power-50%		1.000	P-value		0.216	Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.039
50389C/50389	2	6	99.38	0.42	6	97.52	1.07	-	+	0.164	6	48.15	17.83	6	32.32	17.19	-	+	0.478	6	51.27	17.96	6	65.25	16.98	-	-	0.568
51091C/51091	2	6	100.00	0.00	6	99.58	0.42	-	+	0.363	6	72.75	10.70	6	6.88	3.92	-	+	0.000	6	27.33	10.69	6	92.72	3.80	-	-	0.000
62802C/50226	2	6	99.38	0.62	6	99.58	0.42	-	-	0.892	6	14.60	9.58	6	22.95	9.51	-	-	0.462	6	84.82	10.17	6	76.70	9.31	-	-	0.396
Habitat Means			99.60	0.33		98.90	0.63		+			45.20	12.70		20.73	10.20		+			54.47	12.97		78.23	10.03		-	
Fisher's		Power	0.828		Power-50%		1.000	P-value		0.143	Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.002
Stouffer's		Power	0.529		Power-50%		1.000	P-value		0.122	Power	---		Power-50%		---	P-value		0.033	Power	---		Power-50%		---	P-value		0.046
50389C/50389	3	6	97.72	2.05	6	75.85	15.30	-	+	0.085	6	44.40	19.20	6	22.52	14.90	-	+	0.370	6	53.35	20.33	6	53.35	18.46	-	o	0.944
51091C/51091	3	6	99.80	0.20	6	93.97	3.85	-	+	0.230	6	41.28	15.02	6	28.35	12.81	-	+	0.504	6	58.57	15.11	6	65.63	15.06	-	-	0.855
62802C/50226	3	6	90.03	4.26	6	73.55	16.79	-	+	0.507	6	6.27	2.82	6	36.68	16.62	-	-	0.159	6	83.78	6.43	6	36.90	18.91	-	+	0.071
Habitat Means			95.83	2.20		81.17	12.00		+			30.67	12.33		29.20	14.77		+			65.27	13.93		51.97	17.50		+	
Fisher's		Power	---		Power-50%		---	P-value		0.037	Power	0.048		Power-50%		0.304	P-value		0.391	Power	0.331		Power-50%		0.943	P-value		0.169
Stouffer's		Power	---		Power-50%		---	P-value		0.022	Power	0.025		Power-50%		0.395	P-value		0.526	Power	0.317		Power-50%		0.951	P-value		0.150

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.12. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. August 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (F)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	0.00	0.00	6	0.63	0.63	-	-	0.363	6	0.00	0.00	6	0.63	0.63	-	-	0.363	6	0.42	0.42	6	3.98	1.28	-	-	0.013
51091C/51091	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000
62802C/50226	1	6	0.00	0.00	7	0.19	0.19	-	-	0.356	6	0.00	0.00	7	0.19	0.19	-	-	0.356	6	0.22	0.22	7	5.19	4.41	-	-	0.303
Habitat Means			0.00	0.00		0.27	0.27		-			0.00	0.00		0.27	0.27		-			0.20	0.20		3.07	1.90		-	
Fisher's		Power	---		Power-50%		---	P-value		0.220	Power	---		Power-50%		---	P-value		0.220	Power	---		Power-50%		---	P-value		0.018
Stouffer's		Power	---		Power-50%		---	P-value		0.134	Power	---		Power-50%		---	P-value		0.134	Power	---		Power-50%		---	P-value		0.019
50389C/50389	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.67	1.24	-	-	0.194
51091C/51091	2	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.22	0.22	-	-	0.363
62802C/50226	2	6	12.50	12.50	7	0.00	0.00	-	+	0.363	6	0.63	0.63	7	0.00	0.00	-	+	0.363	6	1.05	0.68	7	0.90	0.71	-	+	0.837
Habitat Means			4.17	4.17		0.00	0.00		+			0.20	0.20		0.00	0.00		+			0.37	0.23		0.93	0.70		-	
Fisher's		Power	---		Power-50%		---	P-value		0.403	Power	---		Power-50%		---	P-value		0.403	Power	0.097		Power-50%		0.016	P-value		0.165
Stouffer's		Power	---		Power-50%		---	P-value		0.278	Power	---		Power-50%		---	P-value		0.278	Power	0.163		Power-50%		0.009	P-value		0.143
50389C/50389	3	6	0.83	0.83	6	24.40	15.84	-	-	0.130	6	0.00	0.00	6	2.53	0.79	-	-	0.009	6	2.50	2.04	6	0.83	0.83	-	+	0.507
51091C/51091	3	6	2.08	2.08	7	1.07	0.74	-	+	0.939	6	2.08	2.08	7	0.71	0.71	-	+	0.677	6	1.67	1.24	7	0.71	0.71	-	+	0.490
62802C/50226	3	6	1.28	0.57	5	4.00	2.92	-	-	0.677	6	0.00	0.00	5	3.76	2.90	-	-	0.209	6	8.77	6.10	5	8.76	4.61	-	+	0.853
Habitat Means			1.40	1.17		9.83	6.47		-			0.70	0.70		2.33	1.47		-			4.33	3.10		3.43	2.03		+	
Fisher's		Power	0.416		Power-50%		0.258	P-value		0.179	Power	---		Power-50%		---	P-value		0.013	Power	0.063		Power-50%		0.407	P-value		0.297
Stouffer's		Power	0.386		Power-50%		0.367	P-value		0.140	Power	---		Power-50%		---	P-value		0.019	Power	0.111		Power-50%		0.601	P-value		0.198

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	6	99.58	0.42	6	95.43	1.79	-	+	0.016	6	43.55	18.66	6	71.27	15.61	-	-	0.379	6	56.05	18.90	6	24.18	15.33	-	+	0.248
51091C/51091	1	6	100.00	0.00	6	100.00	0.00	-	o	1.000	6	83.37	2.63	6	6.05	2.55	-	-	0.000	6	16.70	2.64	6	93.97	2.55	-	-	0.000
62802C/50226	1	6	88.13	9.20	7	94.66	4.36	-	-	0.648	6	34.20	12.91	7	34.67	13.07	-	-	0.942	6	53.98	17.30	7	60.03	15.92	-	-	0.963
Habitat Means			95.90	3.20		96.70	2.07		+			53.73	11.40		37.37	10.43		-			42.27	12.93		59.40	11.27		-	
Fisher's		Power	---		Power-50%		---	P-value		0.065 y	Power	0.052		Power-50%		0.762	P-value		0.565xy	Power	---		Power-50%		---	P-value		0.002
Stouffer's		Power	0.013		Power-50%		1.000	P-value		0.144	Power	0.001		Power-50%		0.803	P-value		0.928	Power	---		Power-50%		---	P-value		0.084
50389C/50389	2	6	100.00	0.00	6	98.33	1.24	-	+	0.194	6	35.42	15.12	6	36.90	15.63	-	-	0.959	6	64.58	15.12	6	61.48	16.42	-	+	0.841
51091C/51091	2	6	100.00	0.00	6	99.80	0.20	-	+	0.363	6	63.78	9.38	6	25.23	9.97	-	+	0.021	6	36.28	9.39	6	74.60	9.89	-	-	0.022
62802C/50226	2	6	86.47	12.31	7	99.11	0.71	-	-	0.322	6	11.27	7.11	7	38.60	11.17	-	-	0.065	6	75.22	12.40	7	60.57	11.34	-	+	0.341
Habitat Means			95.50	4.10		99.07	0.70		+			36.83	10.53		33.57	12.27		-			58.70	12.30		65.57	12.53		+	
Fisher's		Power	0.020		Power-50%		1.000	P-value		0.208 y	Power	0.119		Power-50%		0.530	P-value		0.213xy	Power	0.071		Power-50%		0.976	P-value		0.507xy
Stouffer's		Power	0.003		Power-50%		1.000	P-value		0.289	Power	0.039		Power-50%		0.606	P-value		0.484	Power	0.015		Power-50%		0.987	P-value		0.674
50389C/50389	3	6	96.67	2.86	6	74.82	15.71	-	+	0.154	6	48.13	19.97	6	31.05	16.50	-	+	0.501	6	48.55	21.35	6	43.77	15.59	-	-	0.859
51091C/51091	3	6	96.25	3.28	7	98.21	1.41	-	-	0.696	6	46.70	10.03	7	36.80	11.22	-	+	0.630	6	49.62	11.67	7	61.44	12.26	-	-	0.727
62802C/50226	3	6	90.02	6.12	5	87.26	5.63	-	+	0.718	6	4.38	3.13	5	52.02	18.07	-	-	0.010	6	85.65	6.45	5	35.26	21.62	-	+	0.030
Habitat Means			94.33	4.10		86.77	7.57		+			33.07	11.03		39.97	15.27		+			61.30	13.20		46.83	16.50		-	
Fisher's		Power	0.175		Power-50%		1.000	P-value		0.236	Power	0.019		Power-50%		0.506	P-value		0.533xy	Power	---		Power-50%		---	P-value		0.089
Stouffer's		Power	0.182		Power-50%		1.000	P-value		0.202	Power	0.001		Power-50%		0.598	P-value		0.850	Power	---		Power-50%		---	P-value		0.093

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.13. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. June 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	23.17	9.47	6	9.38	4.65	-	+	0.176	6	11.07	3.68	6	9.18	4.50	-	+	0.536	6	0.22	0.22	6	21.07	12.48	-	-	0.062
50981C/50221	1	6	11.88	7.04	6	4.17	1.13	-	+	0.556	6	10.85	6.97	6	2.58	1.22	-	+	0.473	6	0.83	0.53	6	1.73	1.65	-	-	0.860
50981C/50981	1	6	11.88	7.04	6	8.48	4.37	-	+	0.739	6	10.85	6.97	6	3.13	3.13	-	+	0.325	6	0.83	0.53	6	0.00	0.00	-	+	0.175
Habitat Means			15.67	7.83		7.37	3.40		+			10.97	5.90		4.97	2.93		+			0.60	0.40		7.60	4.73		-	
Fisher's		Power	0.140		Power-50%		0.410	P-value		0.152	Power	0.196		Power-50%		0.328	P-value		0.165	Power	0.123		Power-50%		0.527	P-value		0.184
Stouffer's		Power	---		Power-50%		---	P-value		0.095	Power	---		Power-50%		---	P-value		0.090	Power	0.033		Power-50%		0.615	P-value		0.346
C15.1C/C15.1	2	6	32.73	7.16	6	34.18	14.34	-	-	0.811	6	30.45	6.12	6	33.97	14.21	-	-	0.884	6	2.52	1.41	6	11.05	6.16	-	-	0.156
50981C/50221	2	6	47.95	15.11	4	27.40	14.73	-	+	0.327	6	9.20	3.75	4	27.30	14.67	-	-	0.277	6	2.92	2.45	4	4.90	3.41	-	-	0.455
50981C/50981	2	6	47.95	15.11	6	31.40	13.76	-	+	0.339	6	9.20	3.75	6	14.18	6.43	-	-	0.753	6	2.92	2.45	6	0.98	0.60	-	-	0.732
Habitat Means			42.90	12.47		31.00	14.27		+			16.30	4.57		25.17	11.77		-			2.77	2.13		5.67	3.40		-	
Fisher's		Power	0.199		Power-50%		0.544	P-value		0.223	Power	0.065		Power-50%		0.553	P-value		0.274	Power	0.214		Power-50%		0.401	P-value		0.175
Stouffer's		Power	0.263		Power-50%		0.622	P-value		0.164	Power	0.065		Power-50%		0.629	P-value		0.186	Power	0.189		Power-50%		0.626	P-value		0.146
C15.1C/C15.1	3	6	56.88	17.29	5	34.04	11.78	-	-	0.368	6	17.93	7.66	5	33.78	11.96	-	-	0.368	6	2.92	1.50	5	1.52	1.22	-	+	0.569
50981C/50221	3	5	25.78	14.64	1	6.30	--	-	-	---	5	13.16	6.46	1	6.30	--	-	-	---	5	3.76	1.76	1	7.50	--	-	-	---
50981C/50981	3	5	25.78	14.64	3	37.90	31.06	-	-	0.607	5	13.16	6.46	3	3.13	0.38	-	-	0.437	5	3.76	1.76	3	0.20	0.20	-	+	0.112
Habitat Means			36.17	15.50		26.07	21.45		+			14.77	6.90		14.40	6.20		-			3.50	1.70		3.07	0.70		-	
Fisher's		Power	0.039		Power-50%		0.100	P-value		0.392	Power	0.066		Power-50%		0.124	P-value		0.423 y	Power	---		Power-50%		---	P-value		0.082
Stouffer's		Power	0.058		Power-50%		0.160	P-value		0.393	Power	0.045		Power-50%		0.199	P-value		0.466	Power	---		Power-50%		---	P-value		0.064

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	76.28	9.30	6	69.60	13.01	-	+	0.651	6	70.25	12.97	6	69.60	13.01	-	+	0.900	6	6.05	6.05	6	0.00	0.00	-	+	0.363
50981C/50221	1	6	85.85	6.36	6	88.42	5.27	-	-	0.679	6	85.85	6.36	6	88.42	5.27	-	-	0.679	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50981	1	6	85.85	6.36	6	91.32	4.29	-	-	0.344	6	85.85	6.36	6	91.32	4.29	-	-	0.344	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			82.70	7.37		83.10	7.53		-			80.70	8.60		83.10	7.53		-			2.03	2.03		0.00	0.00		-	
Fisher's		Power	0.032		Power-50%		1.000	P-value		0.373	Power	0.046		Power-50%		0.998	P-value		0.332	Power	---		Power-50%		---	P-value		0.403
Stouffer's		Power	0.021		Power-50%		1.000	P-value		0.300	Power	0.044		Power-50%		0.998	P-value		0.238	Power	---		Power-50%		---	P-value		0.300
C15.1C/C15.1	2	6	64.83	7.18	6	54.82	12.09	-	+	0.538	6	64.83	7.18	6	54.82	12.09	-	+	0.538	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	49.20	14.99	4	64.60	15.50	-	-	0.485	6	49.20	14.99	4	64.60	15.50	-	-	0.485	6	0.00	0.00	4	0.00	0.00	-	o	1.000
50981C/50981	2	6	49.20	14.99	6	67.67	14.15	-	-	0.309	6	49.20	14.99	6	67.67	14.15	-	-	0.309	6	0.00	0.00	6	0.00	0.00	-	o	1.000
Habitat Means			54.40	12.40		62.37	13.93		-			54.40	12.40		62.37	13.93		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	0.263		Power-50%		0.532	P-value		0.303	Power	0.254		Power-50%		0.514	P-value		0.303	Power	---		Power-50%		---	P-value		0.655
Stouffer's		Power	0.211		Power-50%		0.616	P-value		0.263	Power	0.195		Power-50%		0.595	P-value		0.263	Power	---		Power-50%		---	P-value		0.500
C15.1C/C15.1	3	6	40.22	17.52	5	64.52	11.38	-	-	0.314	6	40.00	17.62	5	64.52	11.38	-	-	0.301	6	0.22	0.22	5	0.00	0.00	-	+	0.363
50981C/50221	3	5	51.76	20.02	1	86.30	--	-	-	---	5	42.02	16.41	1	86.30	--	-	-	---	5	9.76	9.44	1	0.00	--	-	+	---
50981C/50981	3	5	51.76	20.02	3	61.67	30.85	-	-	0.844	5	42.02	16.41	3	61.67	30.85	-	-	0.615	5	9.76	9.44	3	0.00	0.00	-	-	0.303
Habitat Means			47.93	19.17		70.83	21.15		-			41.33	16.80		70.83	21.15		-			6.60	6.33		0.00	0.00		+	
Fisher's		Power	0.315		Power-50%		0.096	P-value		0.246	Power	0.324		Power-50%		0.141	P-value		0.188	Power	0.022		Power-50%		0.011	P-value		0.126
Stouffer's		Power	0.330		Power-50%		0.144	P-value		0.197	Power	0.340		Power-50%		0.220	P-value		0.138	Power	---		Power-50%		---	P-value		0.085

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.14. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. July 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	25.23	13.23	6	23.35	13.41	-	+	0.860	6	21.67	11.90	6	23.35	13.41	-	-	0.901	6	0.22	0.22	6	7.73	3.81	-	-	0.034
50981C/50221	1	6	43.57	10.81	7	17.31	10.28	-	+	0.067	6	15.87	4.16	7	14.16	10.42	-	+	0.530	6	7.08	4.15	7	0.74	0.35	-	+	0.268
50981C/50981	1	6	43.57	10.81	8	11.58	4.44	-	+	0.009	6	15.87	4.16	8	4.55	2.77	-	+	0.013	6	7.08	4.15	8	0.48	0.33	-	+	0.180
Habitat Means			37.47	11.60		17.43	9.37		+			17.83	6.77		14.07	8.87		+			4.80	2.87		2.97	1.50		+	
Fisher's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.030	Power	0.278		Power-50%		0.306	P-value		0.181x
Stouffer's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.042	Power	0.029		Power-50%		0.414	P-value		0.427
C15.1C/C15.1	2	6	57.13	12.79	6	28.02	11.13	-	+	0.096	6	55.25	12.45	6	28.02	11.13	-	+	0.110	6	2.93	1.46	6	15.80	8.31	-	-	0.127
50981C/50221	2	6	51.07	14.36	5	67.46	13.70	-	-	0.379	6	42.73	12.62	5	64.46	15.43	-	-	0.274	6	12.32	2.88	5	2.38	1.92	-	-	0.015
50981C/50981	2	6	51.07	14.36	9	24.84	9.97	-	+	0.123	6	42.73	12.62	9	18.98	9.66	-	+	0.102	6	12.32	2.88	9	2.40	0.44	-	-	0.002
Habitat Means			53.10	13.87		40.10	11.60		+			46.90	12.57		37.17	12.07		+			9.17	2.43		6.87	3.53		+	
Fisher's		Power	---		Power-50%		---	P-value		0.061	Power	---		Power-50%		---	P-value		0.061	Power	---		Power-50%		---	P-value		0.001
Stouffer's		Power	---		Power-50%		---	P-value		0.090	Power	0.422		Power-50%	0.810	P-value			0.108	Power	---		Power-50%		---	P-value		0.009
C15.1C/C15.1	3	2	36.25	6.25	5	22.28	6.86	-	+	0.327	2	35.00	7.50	5	21.78	7.12	-	+	0.381	2	10.65	9.35	5	9.58	3.17	-	+	0.970
50981C/50221	3	4	56.90	19.71	0	--	--	-		---	4	36.57	18.92	0	--	--	-		---	4	17.20	9.89	0	--	--	-		---
50981C/50981	3	4	56.90	19.71	7	45.61	11.95	-	+	0.602	4	36.57	18.92	7	25.63	8.09	-	+	0.519	4	17.20	9.89	7	6.90	2.69	-	+	0.273
Habitat Means			50.03	15.23		33.95	9.45		+			36.07	15.10		23.70	7.60		+			15.03	9.73		8.25	2.95		+	
Fisher's		Power	0.182		Power-50%		0.293	P-value		0.197	Power	0.164		Power-50%		0.383	P-value		0.198	Power	0.088		Power-50%		0.202	P-value		0.246
Stouffer's		Power	0.166		Power-50%		0.294	P-value		0.144	Power	0.168		Power-50%		0.416	P-value		0.141	Power	0.078		Power-50%		0.216	P-value		0.211

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of over es
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	6	66.28	11.42	6	68.98	11.54	-	-	0.875	6	64.20	12.88	6	68.77	11.44	-	-	0.807	6	2.08	2.08	6	0.22	0.22	-	-	0.529
50981C/50221	1	6	40.25	8.53	7	78.14	11.64	-	-	0.026	6	40.25	8.53	7	78.14	11.64	-	-	0.026	6	0.00	0.00	7	0.00	0.00	-	o	1.000
50981C/50981	1	6	40.25	8.53	8	87.99	4.34	-	-	0.000	6	40.25	8.53	8	87.99	4.34	-	-	0.000	6	0.00	0.00	8	0.00	0.00	-	o	1.000
Habitat Means			48.97	9.47		78.37	9.13		-			48.27	9.97		78.30	9.10		-			0.70	0.70		0.07	0.07		+	
Fisher's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.490
Stouffer's		Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.000	Power	---		Power-50%		---	P-value		0.358
C15.1C/C15.1	2	6	40.03	12.02	6	56.27	6.91	-	-	0.253	6	40.03	12.02	6	56.27	6.91	-	-	0.253	6	0.00	0.00	6	0.00	0.00	-	o	1.000
50981C/50221	2	6	36.68	14.00	5	30.16	12.63	-	+	0.775	6	29.82	10.51	5	29.16	13.16	-	+	0.853	6	6.88	6.88	5	1.00	1.00	-	+	0.610
50981C/50981	2	6	36.68	14.00	9	72.73	10.25	-	-	0.044	6	29.82	10.51	9	72.73	10.25	-	-	0.014	6	6.88	6.88	9	0.00	0.00	-	+	0.363
Habitat Means			37.80	13.33		53.07	9.93		-			33.20	11.00		52.73	10.13		-			4.60	4.60		0.33	0.33		-	
Fisher's		Power	---		Power-50%		---	P-value		0.047	Power	---		Power-50%		---	P-value		0.019	Power	---		Power-50%		---	P-value		0.305
Stouffer's		Power	---		Power-50%		---	P-value		0.049	Power	---		Power-50%		---	P-value		0.024	Power	---		Power-50%		---	P-value		0.206
C15.1C/C15.1	3	2	53.15	15.65	5	68.24	6.18	-	-	0.310	2	46.90	21.90	5	68.24	6.18	-	-	0.227	2	6.25	6.25	5	0.00	0.00	-	-	0.500
50981C/50221	3	4	25.95	18.35	0	--	--	-		---	4	25.95	18.35	0	--	--	-		---	4	0.00	0.00	0	--	--	-		---
50981C/50981	3	4	25.95	18.35	7	47.23	12.24	-	-	0.257	4	25.95	18.35	7	40.44	13.97	-	-	0.524	4	0.00	0.00	7	6.79	6.79	-	-	0.356
Habitat Means			35.07	17.50		57.70	9.20		-			32.97	19.57		54.30	10.10		-			2.10	2.10		3.40	3.40		-	
Fisher's		Power	---		Power-50%		---	P-value		0.098	Power	0.081		Power-50%	0.270	P-value			0.134	Power	---		Power-50%		---	P-value		0.402
Stouffer's		Power	---		Power-50%		---	P-value		0.064	Power	---		Power-50%		---	P-value		0.096	Power	---		Power-50%		---	P-value		0.430

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.15. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	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	23.57	16.28	6	35.85	13.89	-	-	0.545	6	23.57	16.28	6	17.30	11.71	-	+	0.847	6	33.98	9.55	6	6.05	2.38	-	+	0.019
31252C/31248	1	6	17.72	7.50	6	26.68	15.97	-	-	0.761	6	17.72	7.50	6	26.68	15.97	-	-	0.761	6	21.07	9.85	6	26.68	14.25	-	-	0.839
31252C/31252	1	6	17.72	7.50	5	5.26	3.88	-	+	0.229	6	17.72	7.50	5	4.76	3.41	-	+	0.209	6	21.07	9.85	5	46.52	17.21	-	-	0.226
99826C/33141	1	6	2.30	1.39	5	1.76	1.09	-	+	0.803	6	1.90	1.40	5	0.76	0.76	-	+	0.464	6	56.88	16.11	5	21.02	10.00	-	+	0.076
Habitat Means			15.33	8.18		17.43	8.73		+			15.23	8.18		12.40	7.97		-			33.28	11.38		25.08	10.98		+	
Fisher's	Power		0.070		Power~50%		0.481	P-value		0.458 y	Power		0.163		Power~50%		0.432	P-value		0.257	Power		---		Power~50%		---	P-value		0.029
Stouffer's	Power		0.035		Power~50%		0.490	P-value		0.572	Power		0.121		Power~50%		0.445	P-value		0.303	Power		---		Power~50%		---	P-value		0.068
30196C/30196	2	6	66.47	13.15	6	74.60	8.97	-	-	0.636	6	30.25	12.35	6	65.23	13.35	-	-	0.101	6	4.62	2.54	6	5.02	3.58	-	-	0.919
31252C/31248	2	6	37.50	11.65	6	16.90	8.73	-	+	0.246	6	31.88	10.78	6	13.35	9.37	-	+	0.196	6	21.08	7.51	6	25.63	12.39	-	-	0.912
31252C/31252	2	6	37.50	11.65	5	1.78	0.64	-	-	0.025	6	31.88	10.78	5	1.02	0.74	-	+	0.017	6	21.08	7.51	5	49.52	5.46	-	-	0.015
99826C/33141	2	6	21.93	10.57	5	7.76	7.15	-	+	0.217	6	18.37	10.31	5	5.76	5.76	-	+	0.273	6	62.40	13.63	5	8.02	7.11	-	+	0.005
Habitat Means			40.85	11.80		25.28	6.38		+			28.13	11.08		21.35	7.33		+			27.30	7.78		22.03	7.15		-	
Fisher's	Power		---		Power~50%		---	P-value		0.020	Power		---		Power~50%		---	P-value		0.019	Power		0.099		Power~50%		0.838	P-value		0.113xy
Stouffer's	Power		0.200		Power~50%		0.423	P-value		0.147	Power		0.085		Power~50%		0.504	P-value		0.414	Power		0.116		Power~50%		0.629	P-value		0.212
30196C/30196	3	5	82.26	10.95	6	90.83	4.01	-	-	0.503	5	41.54	16.75	6	37.12	10.78	-	+	0.857	5	12.02	11.37	6	3.33	2.86	-	-	0.492
31252C/31248	3	6	16.08	6.61	6	17.12	8.66	-	-	0.949	6	13.98	6.18	6	11.27	9.61	-	+	0.383	6	42.72	6.64	6	53.98	14.52	-	-	0.591
31252C/31252	3	6	16.08	6.61	6	29.88	10.65	-	-	0.350	6	13.98	6.18	6	26.92	11.32	-	-	0.407	6	42.72	6.64	6	46.57	8.78	-	-	0.697
99826C/33141	3	1	4.00	--	5	24.26	10.61	-	-	---	1	2.70	--	5	16.00	9.37	-	-	---	1	90.70	--	5	3.50	2.92	-	-	---
Habitat Means			29.63	8.07		40.53	8.50		-			18.05	9.73		22.83	10.28		+			47.03	8.20		26.85	7.28		-	
Fisher's	Power		0.120		Power~50%		0.601	P-value		0.258	Power		0.064		Power~50%		0.624	P-value		0.487 y	Power		0.033		Power~50%		0.353	P-value		0.529 y
Stouffer's	Power		0.117		Power~50%		0.618	P-value		0.183	Power		0.050		Power~50%		0.561	P-value		0.398	Power		0.028		Power~50%		0.400	P-value		0.565

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	42.52	10.97	6	58.13	15.04	-	-	0.362	6	42.52	10.97	6	56.88	15.27	-	-	0.393	6	0.00	0.00	6	1.25	1.25	-	-	0.363
31252C/31248	1	6	61.28	9.68	6	46.68	19.02	-	+	0.480	6	61.28	9.68	6	46.68	19.02	-	+	0.480	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	1	6	61.28	9.68	5	48.26	17.26	-	+	0.535	6	61.28	9.68	5	48.26	17.26	-	+	0.535	6	0.00	0.00	5	0.00	0.00	-	o	1.000
99826C/33141	1	6	40.88	16.87	5	77.28	10.90	-	-	0.082	6	40.88	16.87	5	62.54	12.98	-	-	0.246	6	0.00	0.00	5	14.74	14.74	-	-	0.374
Habitat Means			51.50	11.83		57.60	15.55		-			51.50	11.83		53.60	16.15		-			0.00	0.00		4.00	4.00		-	
Fisher's	Power		0.077		Power~50%		0.935	P-value		0.203	Power		0.046		Power~50%		0.925	P-value		0.376	Power		---		Power~50%		---	P-value		0.299
Stouffer's	Power		0.006		Power~50%		0.899	P-value		0.378	Power		0.006		Power~50%		0.885	P-value		0.412	Power		---		Power~50%		---	P-value		0.213
30196C/30196	2	6	28.98	13.61	6	20.45	7.74	-	+	0.657	6	28.98	13.61	6	20.45	7.74	-	+	0.657	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31248	2	6	41.50	7.29	6	57.53	15.70	-	-	0.477	6	41.28	7.21	6	57.53	15.70	-	-	0.471	6	0.22	0.22	6	0.00	0.00	-	+	0.363
31252C/31252	2	6	41.50	7.29	5	48.76	5.13	-	-	0.437	6	41.28	7.21	5	48.76	5.13	-	-	0.422	6	0.22	0.22	5	0.00	0.00	-	+	0.363
99826C/33141	2	6	15.75	11.85	5	84.26	9.64	-	-	0.002	6	15.75	11.85	5	84.26	9.64	-	-	0.002	6	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			31.95	10.03		52.78	9.52		-			31.85	9.98		52.78	9.52		-			0.10	0.10		0.00	0.00		+	
Fisher's	Power		---		Power~50%		---	P-value		0.008	Power		---		Power~50%		---	P-value		0.008	Power		---		Power~50%		---	P-value		0.295
Stouffer's	Power		0.111		Power~50%		0.623	P-value		0.316	Power		0.120		Power~50%		0.588	P-value		0.311	Power		---		Power~50%		---	P-value		0.227
30196C/30196	3	5	5.76	3.05	6	5.83	2.64	-	-	0.928	5	5.76	3.05	6	5.83	2.64	-	-	0.928	5	0.00	0.00	6	0.00	0.00		o	1.000
31252C/31248	3	6	41.28	5.79	6	28.97	14.43	-	+	0.269	6	41.28	5.79	6	28.97	14.43	-	+	0.269	6	0.00	0.00	6	0.00	0.00	-	o	1.000
31252C/31252	3	6	41.28	5.79	6	23.62	8.98	-	+	0.110	6	41.28	5.79	6	23.62	8.98	-	+	0.110	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	1	5.30	--	5	72.26	11.92	-	-	---	1	5.30	--	5	52.26	16.27	-	-	---	1	0.00	--	5	20.00	20.00	-	-	---
Habitat Means			23.42	4.90		32.68	9.48		+			23.42	4.90		27.67	10.58		+			0.00	0.00		5.00	5.00		o	
Fisher's	Power		---		Power~50%		---	P-value		0.086 y	Power		---		Power~50%		---	P-value		0.086 y	Power		---		Power~50%		---	P-value		0.655 y
Stouffer's	Power		0.199		Power~50%		0.923	P-value		0.154	Power		0.203		Power~50%		0.925	P-value		0.154	Power		---		Power~50%		---	P-value		0.500

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.16. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	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	17.93	14.11	9	18.92	10.08	-	-	0.852	6	15.85	12.10	9	9.07	5.43	-	+	0.754	6	45.67	11.86	9	10.91	5.34	-	-	0.021
31252C/31248	1	6	23.97	13.42	8	8.14	3.81	-	+	0.276	6	23.97	13.42	8	8.14	3.81	-	+	0.276	6	22.93	13.19	8	38.84	10.91	-	-	0.318
31252C/31252	1	6	23.97	13.42	6	2.00	1.55	-	+	0.116	6	23.97	13.42	6	1.58	1.58	-	+	0.092	6	22.93	13.19	6	88.55	8.63	-	-	0.001
99826C/33141	1	9	0.71	0.43	7	18.94	7.46	-	-	0.020	9	0.57	0.43	7	17.51	7.74	-	-	0.060	9	31.26	10.63	7	31.29	8.71	-	-	0.948
Habitat Means			16.65	10.33		11.98	5.75		-			16.13	9.83		9.08	4.62		+			30.70	12.23		42.40	8.38		-	
Fisher's		Power	0.195		Power-50%		0.653	P-value		0.185 y	Power	0.238		Power-50%		0.507	P-value		0.145x	Power	---		Power-50%		---	P-value		0.012x
Stouffer's		Power	0.008		Power-50%		0.603	P-value		0.774	Power	0.381		Power-50%		0.543	P-value		0.110	Power	0.010		Power-50%		0.386	P-value		0.600
30196C/30196	2	6	50.90	10.01	7	46.54	15.05	-	+	0.710	6	43.05	8.88	7	25.41	11.93	-	-	0.163	6	24.18	8.84	7	7.84	4.87	-	+	0.183
31252C/31248	2	6	40.85	17.26	9	19.87	7.30	-	+	0.315	6	40.63	17.17	9	18.48	6.82	-	+	0.284	6	44.20	14.02	9	64.32	9.41	-	-	0.199
31252C/31252	2	6	40.85	17.26	6	3.18	1.77	-	+	0.103	6	40.63	17.17	6	0.00	0.00	-	+	0.049	6	44.20	14.02	6	88.15	3.76	-	-	0.012
99826C/33141	2	9	32.79	10.06	7	13.57	8.41	-	+	0.154	9	31.27	10.24	7	10.37	7.46	-	+	0.126	9	60.57	9.77	7	12.16	7.09	-	+	0.002
Habitat Means			41.38	13.68		20.80	8.15		+			38.90	13.37		13.57	6.55		+			43.30	11.65		43.13	6.30		+	
Fisher's		Power	---		Power-50%		---	P-value		0.032	Power	---		Power-50%		---	P-value		0.005	Power	---		Power-50%		---	P-value		0.015x
Stouffer's		Power	---		Power-50%		---	P-value		0.073	Power	---		Power-50%		---	P-value		0.007	Power	0.045		Power-50%		0.647	P-value		0.577
30196C/30196	3	6	80.75	16.22	8	87.84	6.88	-	-	0.672	6	49.20	19.10	8	20.81	6.79	-	+	0.237	6	1.75	1.17	8	0.16	0.16	-	+	0.194
31252C/31248	3	6	8.13	2.73	8	17.38	4.80	-	-	0.218	6	6.67	3.14	8	15.19	4.93	-	-	0.187	6	86.27	5.02	8	64.08	6.46	-	+	0.070
31252C/31252	3	6	8.13	2.73	6	31.28	12.79	-	-	0.141	6	6.67	3.14	6	25.87	13.39	-	-	0.203	6	86.27	5.02	6	62.75	12.65	-	+	0.137
99826C/33141	3	5	38.80	14.60	6	28.55	18.37	-	+	0.457	5	22.28	16.84	6	27.30	17.81	-	-	0.962	5	20.78	10.69	6	1.70	0.71	-	+	0.025
Habitat Means			33.95	9.05		41.27	10.73		-			21.23	10.53		22.30	10.73		-			48.80	5.48		32.20	5.03		+	
Fisher's		Power	0.595		Power-50%		0.988	P-value		0.132	Power	0.192		Power-50%		0.598	P-value		0.200	Power	---		Power-50%		---	P-value		0.001
Stouffer's		Power	---		Power-50%		---	P-value		0.082	Power	0.040		Power-50%		0.580	P-value		0.452	Power	---		Power-50%		---	P-value		0.005

x At *least one site pair p value* < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	6	36.50	6.78	9	70.19	12.09	-	-	0.061	6	36.50	6.78	9	70.19	12.09	-	-	0.061	6	0.00	0.00	9	0.00	0.00	-	o	1.000
31252C/31248	1	6	53.15	17.44	8	53.06	12.80	-	+	0.978	6	53.15	17.44	8	53.06	12.80	-	+	0.978	6	0.00	0.00	8	0.00	0.00	-	o	1.000
31252C/31252	1	6	53.15	17.44	6	9.47	8.18	-	+	0.026	6	53.15	17.44	6	9.47	8.18	-	+	0.026	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	1	9	68.08	10.85	7	49.84	11.13	-	+	0.274	9	68.08	10.85	7	49.67	11.22	-	+	0.271	9	0.00	0.00	7	0.19	0.19	-	-	0.356
Habitat Means			52.75	13.13		45.65	11.05		.			52.75	13.13		45.62	11.08		+			0.00	0.00		0.05	0.05		-	
Fisher's		Power	---		Power-50%		---	P-value		0.078x	Power	---		Power-50%		---	P-value		0.077x	Power	---		Power-50%		---	P-value		0.472
Stouffer's		Power	0.042		Power-50%		0.706	P-value		0.732	Power	0.046		Power-50%		0.699	P-value		0.732	Power	---		Power-50%		---	P-value		0.473
30196C/30196	2	6	24.93	7.49	7	45.64	15.55	-	-	0.271	6	24.93	7.49	7	45.64	15.55	-	-	0.271	6	0.00	0.00	7	0.00	0.00	-	o	1.000
31252C/31248	2	6	15.03	7.15	9	15.84	7.31	-	-	0.758	6	15.03	7.15	9	15.84	7.31	-	-	0.758	6	0.00	0.00	9	0.00	0.00	-	o	1.000
31252C/31252	2	6	15.03	7.15	6	8.72	4.35	-	+	0.320	6	15.03	7.15	6	8.72	4.35	-	+	0.320	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	2	9	6.68	4.31	7	74.30	15.02	-	-	0.001	9	6.68	4.31	7	74.30	15.02	-	-	0.001	9	0.00	0.00	7	0.00	0.00	-	o	1.000
Habitat Means			15.40	6.55		36.10	10.58		-			15.40	6.55		36.10	10.58		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.698
Stouffer's		Power	0.079		Power-50%		0.657	P-value		0.176	Power	0.074		Power-50%		0.661	P-value		0.176	Power	---		Power-50%		---	P-value		0.500
30196C/30196	3	6	17.52	15.80	8	12.05	6.92	-	+	0.799	6	17.52	15.80	8	12.05	6.92	-	-	0.799	6	0.00	0.00	8	0.00	0.00	-	o	1.000
31252C/31248	3	6	5.63	2.74	8	18.61	6.22	-	-	0.250	6	5.63	2.74	8	17.99	5.95	-	-	0.259	6	0.00	0.00	8	0.63	0.63	-	-	0.351
31252C/31252	3	6	5.63	2.74	6	6.05	3.04	-	-	0.832	6	5.63	2.74	6	6.05	3.04	-	-	0.832	6	0.00	0.00	6	0.00	0.00	-	o	1.000
99826C/33141	3	5	40.50	17.11	6	69.83	18.35	-	-	0.209	5	36.50	15.48	6	69.42	18.22	-	-	0.175	5	4.00	4.00	6	0.42	0.42	-	+	0.474
Habitat Means			17.30	9.58		26.65	8.63		-			16.30	9.18		26.40	8.52		-			1.00	1.00		0.25	0.25		-	
Fisher's		Power	0.133		Power-50%		0.419	P-value		0.178	Power	0.144		Power-50%		0.416	P-value		0.163	Power	---		Power-50%		---	P-value		0.559 y
Stouffer's		Power	0.138		Power-50%		0.439	P-value		0.309	Power	0.141		Power-50%		0.432	P-value		0.309	Power	---		Power-50%		---	P-value		0.351

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.17. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.22	0.22	6	0.22	0.22	-	o	1.000
94935C/31288	1	6	15.83	7.76	6	0.22	0.22	-	+	0.100	6	15.63	7.64	6	0.00	0.00	-	+	0.083	6	13.98	5.60	6	0.43	0.27	-	+	0.009
Habitat Means			7.90	3.90		0.10	0.10		+			7.80	3.80		0.00	0.00		+			7.10	2.90		0.30	0.25		+	
Fisher's		Power	0.247		Power-50%		0.123	P-value		0.117	Power	0.165		Power-50%		0.109	P-value		0.101	Power	---		Power-50%		---	P-value		0.017
Stouffer's		Power	---		Power-50%		---	P-value		0.050	Power	---		Power-50%		---	P-value		0.042	Power	---		Power-50%		---	P-value		0.005
13.1C/13.1	2	6	2.93	1.85	6	0.00	0.00	-	+	0.111	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.22	0.22	6	1.47	0.82	-	-	0.178
94935C/31288	2	6	31.10	14.94	6	0.00	0.00	-	+	0.054	6	28.12	14.34	6	0.00	0.00	-	+	0.058	6	8.63	4.46	6	0.63	0.63	-	+	0.038
Habitat Means			17.00	8.40		0.00	0.00		+			14.05	7.15		0.00	0.00		+			4.40	2.35		1.05	0.70		+	
Fisher's		Power	---		Power-50%		---	P-value		0.011	Power	---		Power-50%		---	P-value		0.076	Power	---		Power-50%		---	P-value		0.087
Stouffer's		Power	---		Power-50%		---	P-value		0.021	Power	---		Power-50%		---	P-value		0.029	Power	---		Power-50%		---	P-value		0.023
13.1C/13.1	3	6	0.85	0.42	6	0.42	0.42	-	+	0.360	6	0.22	0.22	6	0.00	0.00	-	+	0.363	6	9.20	2.00	6	16.27	5.46	-	-	0.541
94935C/31288	3	6	18.55	12.30	6	5.63	5.63	-	+	0.415	6	17.52	11.45	6	0.22	0.22	-	+	0.208	6	9.83	5.23	6	13.97	8.47	-	-	0.999
Habitat Means			9.75	6.35		3.00	3.00		+			8.85	5.85		0.10	0.10		+			9.50	3.60		15.15	7.00		-	
Fisher's		Power	0.273		Power-50%		0.516	P-value		0.160	Power	---		Power-50%		---	P-value		0.094	Power	0.048		Power-50%		0.546	P-value		0.405
Stouffer's		Power	0.248		Power-50%		0.368	P-value		0.192	Power	---		Power-50%		---	P-value		0.094	Power	0.060		Power-50%		0.351	P-value		0.484

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	99.80	0.20	6	99.80	0.20	-	o	1.000	6	99.80	0.20	6	99.60	0.25	-	+	0.549	6	0.00	0.00	6	0.22	0.22	-	-	0.363
94935C/31288	1	6	70.23	10.55	6	99.40	0.27	-	-	0.024	6	53.35	13.70	6	4.80	4.80	-	+	0.008	6	16.88	16.62	6	94.62	4.67	-	-	0.002
Habitat Means			85.00	5.40		99.60	0.25		-			76.60	6.95		52.20	2.55		+			8.45	8.30		47.40	2.45		-	
Fisher's		Power	---		Power-50%		---	P-value		0.037	Power	---		Power-50%		---	P-value		0.008	Power	---		Power-50%		---	P-value		0.002
Stouffer's		Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.001
13.1C/13.1	2	6	96.68	1.75	6	98.55	0.82	-	-	0.418	6	96.68	1.75	6	97.73	0.61	-	-	0.916	6	0.00	0.00	6	0.85	0.42	-	-	0.081
94935C/31288	2	6	60.33	16.42	6	99.38	0.62	-	-	0.028	6	23.23	10.77	6	16.90	6.16	-	+	0.986	6	37.10	19.45	6	82.52	6.03	-	-	0.086
Habitat Means			78.50	9.10		99.00	0.70		-			59.95	6.30		57.30	3.40		-			18.55	9.75		41.70	3.20		-	
Fisher's		Power	---		Power-50%		---	P-value		0.020	Power	0.034		Power-50%		0.652	P-value		0.571 y	Power	---		Power-50%		---	P-value		0.013
Stouffer's		Power	---		Power-50%		---	P-value		0.012	Power	0.051		Power-50%		0.558	P-value		0.504	Power	---		Power-50%		---	P-value		0.034
13.1C/13.1	3	6	90.03	1.99	6	83.35	5.28	-	+	0.562	6	90.03	1.99	6	83.35	5.28	-	+	0.562	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	3	6	71.70	16.41	6	80.43	13.37	-	-	0.624	6	37.73	11.52	6	63.77	18.06	-	-	0.282	6	33.98	12.05	6	16.67	16.67	-	+	0.340
Habitat Means			80.85	9.20		81.90	9.35		+			63.85	6.75		73.60	11.70		-			17.00	6.05		8.35	8.35		+	
Fisher's		Power	0.029		Power-50%		.794	P-value		0.511 y	Power	0.216		Power-50%		0.882	P-value		0.333	Power	0.187		Power-50%		0.121	P-value		0.295
Stouffer's		Power	0.065		Power-50%		.591	P-value		0.674	Power	0.036		Power-50%		0.680	P-value		0.150	Power	0.000		Power-50%		0.000	P-value		0.171

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.18. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. Undisturbed.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a 50% difference; dashes = insufficient data.

		Total Algae									Total Fucus gardneri (P)									Total Invertebrates								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	0.00	0.00	6	0.22	0.22	-	-	0.363	6	0.00	0.00	6	0.22	0.22	-	-	0.363	6	0.00	0.00	6	0.22	0.22	-	-	0.363
94935C/31288	1	9	22.64	7.69	7	0.36	0.36	-	+	0.020	9	22.64	7.69	7	0.36	0.36	-	+	0.020	9	14.18	6.88	7	1.69	1.69	-	+	0.024
Habitat Means			11.30	3.85		0.30	0.30		+			11.30	3.85		0.30	0.30		+			7.10	3.45		0.95	0.95		+	
Fisher's		Power	---		Power-50%		---	P-value		0.048	Power	---		Power-50%		---	P-value		0.048	Power	---		Power-50%		---	P-value		0.056
Stouffer's		Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.012	Power	---		Power-50%		---	P-value		0.014
13.1C/13.1	2	6	0.22	0.22	6	0.42	0.42	-	-	0.825	6	0.00	0.00	6	0.00	0.00	-	o	1.000	6	0.00	0.00	6	1.27	0.79	-	-	0.101
94935C/31288	2	9	27.38	8.29	7	0.54	0.37	-	+	0.003	9	23.49	8.26	7	0.19	0.19	-	+	0.008	9	14.73	4.66	7	5.00	5.00	-	+	0.045
Habitat Means			13.80	4.25		0.45	0.40		+			11.75	4.15		0.10	0.10		+			7.35	2.35		3.15	2.90		+	
Fisher's		Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.014	Power	0.222		Power-50%		0.055	P-value		0.104
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.004	Power	---		Power-50%		---	P-value		0.029
13.1C/13.1	3	6	2.92	2.45	6	0.00	0.00	-	+	0.221	6	2.92	2.45	6	0.00	0.00	-	+	0.221	6	16.27	8.85	6	12.93	4.09	-	+	0.923
94935C/31288	3	6	32.93	19.54	5	0.26	0.26	-	+	0.146	6	32.93	19.54	5	0.26	0.26	-	+	0.146	6	6.70	3.00	5	20.02	19.08	-	-	0.706
Habitat Means			17.90	11.00		0.15	0.15		+			17.90	11.00		0.15	0.15		+			11.50	5.95		16.45	11.60		-	
Fisher's		Power	---		Power-50%		---	P-value		0.047	Power	---		Power-50%		---	P-value		0.047	Power	0.046		Power-50%		0.162	P-value		0.505
Stouffer's		Power	---		Power-50%		---	P-value		0.063	Power	---		Power-50%		---	P-value		0.063	Power	0.060		Power-50%		0.133	P-value		0.356

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate									Rock									Sand and Mud								
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	6	100.00	0.00	6	99.60	0.25	-	+	0.175	6	100.00	0.00	6	99.40	0.27	-	+	0.076	6	0.00	0.00	6	0.22	0.22	-	-	0.363
94935C/31288	1	9	63.20	8.73	7	97.96	1.66	-	-	0.002	9	58.76	7.42	7	24.01	15.29	-	+	0.044	9	4.44	4.44	7	73.97	15.99	-	-	0.000
Habitat Means			81.60	4.35		98.80	1.00		-			79.40	3.70		61.70	7.80		+			2.20	2.20		37.10	8.10		-	
Fisher's		Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.007	Power	---		Power-50%		---	P-value		0.000
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.017	Power	---		Power-50%		---	P-value		0.000
13.1C/13.1	2	6	99.80	0.20	6	98.35	0.77	-	+	0.070	6	99.80	0.20	6	98.35	0.77	-	+	0.070	6	0.00	0.00	6	0.00	0.00	-	o	1.000
94935C/31288	2	9	57.39	8.42	7	94.47	5.33	-	-	0.001	9	52.80	6.73	7	27.17	12.13	-	+	0.043	9	4.59	4.43	7	67.34	15.54	-	-	0.001
Habitat Means			78.60	4.30		96.45	3.05		-			76.30	3.45		62.80	6.45		+			2.30	2.20		33.65	7.75		-	
Fisher's		Power	---		Power-50%		---	P-value		0.003x	Power	---		Power-50%		---	P-value		0.006	Power	---		Power-50%		---	P-value		0.002
Stouffer's		Power	---		Power-50%		---	P-value		0.001	Power	---		Power-50%		---	P-value		0.016	Power	---		Power-50%		---	P-value		0.000
13.1C/13.1	3	6	80.85	10.94	6	87.10	4.09	-	-	0.942	6	80.85	10.94	6	86.07	4.72	-	-	0.995	6	0.00	0.00	6	1.05	0.82	-	-	0.202
94935C/31288	3	6	60.43	17.85	5	79.76	19.33	-	-	0.343	6	27.72	13.57	5	15.52	12.25	-	+	0.519	6	32.73	17.59	5	64.26	20.37	-	-	0.250
Habitat Means			70.65	14.40		83.45	11.70		-			54.30	12.25		50.80	8.50		+			16.35	8.80		32.70	10.60		-	
Fisher's		Power	0.064		Power-50%		0.485	P-value		0.284	Power	0.086		Power-50%		0.495	P-value		0.396	Power	---		Power-50%		---	P-value		0.068
Stouffer's		Power	0.060		Power-50%		0.416	P-value		0.171	Power	0.033		Power-50%		0.427	P-value		0.260	Power	0.089		Power-50%		0.000	P-value		0.109

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.19. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Sheltered Rocky. July 1990. Cleared August 1989.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

		Total Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	1.67	1.67	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.83	0.83	-		---
601C/601	1	0	--	--	3	1.67	1.67	-		---	0	--	--	3	1.67	1.67	-		---	0	--	--	3	5.83	3.63	-		---
598C/598	1	0	--	--	3	1.67	1.67	-		---	0	--	--	3	1.67	1.67	-		---	0	--	--	3	0.83	0.83	-		---
1522C/1522	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.83	0.83	-		---
Habitat Means			--	--		1.27	1.27					--	--		0.85	0.85					--	--		2.05	1.50			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	16.67	16.67	-		---	0	--	--	3	10.83	10.83	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	5.00	5.00	-		---	0	--	--	3	5.00	5.00	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	2	0	--	--	3	5.00	3.82	-		---	0	--	--	3	0.00	0.00	-		---	0	--	--	3	2.50	0.00	-		---
1522C/1522	2	0	--	--	2	58.75	31.25	-		---	0	--	--	2	7.50	7.50	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		21.37	14.20					--	--		5.82	5.82					--	--		0.63	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	14.17	7.12	-		---	0	--	--	3	12.50	6.61	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	3	0	--	--	2	50.00	35.00	-		---	0	--	--	2	7.50	7.50	-		---	0	--	--	2	0.00	0.00	-		---
598C/598	3	0	--	--	3	37.50	19.09	-		---	0	--	--	3	11.67	3.63	-		---	0	--	--	3	7.50	6.29	-		---
1522C/1522	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		33.90	20.40					--	--		10.57	5.90					--	--		2.50	2.10			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
4825C/1424	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	1	0	--	--	3	97.50	1.44	-		---	0	--	--	3	97.50	1.44	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	1	0	--	--	3	92.50	3.82	-		---	0	--	--	3	92.50	3.82	-		---	0	--	--	3	0.00	0.00	-		---
598C/598	1	0	--	--	3	97.50	2.50	-		---	0	--	--	3	97.50	2.50	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	1	0	--	--	3	99.17	0.83	-		---	0	--	--	3	99.17	0.83	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		96.68	2.13					--	--		96.68	2.13					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
4825C/1424	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	2	0	--	--	3	83.33	16.67	-		---	0	--	--	3	83.33	16.67	-		---	0	--	--	3	0.00	0.00	-		---
601C/601	2	0	--	--	3	95.00	5.00	-		---	0	--	--	3	81.67	8.82	-		---	0	--	--	3	13.33	10.93	-		---
598C/598	2	0	--	--	3	92.50	3.82	-		---	0	--	--	3	92.50	3.82	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	2	0	--	--	2	41.25	31.25	-		---	0	--	--	2	41.25	31.25	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		78.02	14.20					--	--		74.70	15.15					--	--		3.33	2.73			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
4825C/1424	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
453C/453	3	0	--	--	3	85.83	7.12	-		---	0	--	--	3	84.17	5.46	-		---	0	--	--	3	1.67	1.67	-		---
601C/601	3	0	--	--	2	50.00	35.00	-		---	0	--	--	2	18.75	13.75	-		---	0	--	--	2	31.25	21.25	-		---
598C/598	3	0	--	--	3	55.00	15.07	-		---	0	--	--	3	55.00	15.07	-		---	0	--	--	3	0.00	0.00	-		---
1522C/1522	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		63.60	19.07					--	--		52.67	11.47					--	--		11.00	7.67			
Fisher's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	
Stouffer's		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---		Power	---		Power-50%		---	P-value	---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.20. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Coarse Textured. July 1990. 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 Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	1.67	1.67	-		---	0	--	--	3	1.67	1.67	-		---	0	--	--	3	5.00	2.89	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		1.70	1.70					--	--		1.70	1.70					--	--		5.00	2.90			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	6.67	4.41	-		---	0	--	--	3	5.83	3.63	-		---	0	--	--	3	3.33	3.33	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		6.70	4.40					--	--		5.80	3.60					--	--		3.30	3.30			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	2	32.50	17.50	-		---	0	--	--	2	25.00	22.50	-		---	0	--	--	2	2.50	2.50	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		32.50	17.50					--	--		25.00	22.50					--	--		2.50	2.50			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
506C/506	1	0	--	--	3	93.33	3.33	-		---	0	--	--	3	93.33	3.33	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		93.30	3.30					--	--		93.30	3.30					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	2	0	--	--	3	90.00	5.00	-		---	0	--	--	3	90.00	5.00	-		---	0	--	--	3	0.00	0.00	-		---
1598C/1598	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		90.00	5.00					--	--		90.00	5.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
506C/506	3	0	--	--	2	65.00	20.00	-		---	0	--	--	2	65.00	20.00	-		---	0	--	--	2	0.00	0.00	-		---
1598C/1598	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
846C/846	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
1650C/1650	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		65.00	20.00					--	--		65.00	20.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.21. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Estuarine. August 1990. 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 Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
P15.1C/P15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	1	3	5.00	2.89	3	6.67	3.63	-	-	0.844	3	5.00	2.89	3	5.83	3.63	-	-	0.930	3	1.67	0.83	3	3.33	0.83	-	-	0.261
Habitat Means			5.00	2.90		6.70	3.60		-			5.00	2.90		5.80	3.60		-			1.70	0.80		3.30	0.80		-	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	2	3	4.17	4.17	5	2.50	1.94	-	+	0.849	3	4.17	4.17	5	2.50	1.94	-	+	0.849	3	15.83	5.46	5	5.50	1.66	-	-	0.105
Habitat Means			4.20	4.20		2.50	1.90		-			4.20	4.20		2.50	1.90		-			15.80	5.50		5.50	1.70		-	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	36.67	31.80	1	0.00	--	-	+	---	3	33.33	33.33	1	0.00	--	-	+	---	3	9.17	9.17	1	14.30	--	-	-	---
Habitat Means			36.70	31.80		0.00	--					33.30	33.30		0.00	--					9.20	9.20		14.30	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
2397C/20809	1	3	93.33	3.00	3	90.00	4.33	-	+	0.606	3	93.33	3.00	3	90.00	4.33	-	+	0.606	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			93.30	3.00		90.00	4.30		+			93.30	3.00		90.00	4.30		+			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	2	3	80.00	8.04	5	92.00	2.67	-	-	0.179	3	80.00	8.04	5	92.00	2.67	-	-	0.179	3	0.00	0.00	5	0.00	0.00	-	o	1.000
Habitat Means			80.00	8.00		92.00	2.70		-			80.00	8.00		92.00	2.70		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	z Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
P15.1C/P15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
2397C/20809	3	3	40.83	20.43	1	85.70	--	-	-	---	3	20.83	20.83	1	85.70	--	-	-	---	3	20.00	20.00	1	0.00	--	-	-	---
Habitat Means			40.80	20.40		85.70	--					20.80	20.80		85.70	--					20.00	20.00		0.00	--			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.22. Algal Percent Cover. Totals and Seasonal Groups. Prince William Sound. Exposed Rocky. August 1990. 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 Algae									Total Fucus gardneri (P)										Total Invertebrates									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
1642C/833	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000		3	0.00	0.00	3	4.17	4.17	-	-	0.423	
4537C/979	1	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	3.33	3.33	-		---	
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o				0.00	0.00		3.75	3.75		-		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
1642C/833	2	2	22.50	22.50	3	1.67	1.67	-	+	0.388	2	21.25	21.25	3	0.00	0.00	-	+	0.500		2	0.00	0.00	3	5.27	5.27	-	-	0.423	
4537C/979	2	0	--	--	3	0.00	0.00	-		---	0	--	--	3	0.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			22.50	22.50		0.85	0.85		+			21.30	21.30		0.00	0.00		-				0.00	0.00		2.65	2.65		-		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
1642C/833	3	3	18.33	9.61	2	8.75	8.75	-	+	0.638	3	15.83	7.95	2	8.75	8.75	-	+	0.681		3	0.83	0.83	2	1.25	1.25	-	-	0.789	
4537C/979	3	0	--	--	2	23.75	23.75	-		---	0	--	--	2	23.75	23.75	-		---		0	--	--	2	0.00	0.00	-		---	
Habitat Means			18.30	9.60		16.30	16.30		-			15.80	8.00		16.30	16.30		+				0.80	0.80		0.65	0.65		-		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	yz	Power	---		Power-50%		---	P-value		---	yz
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate									Rock										Sand and Mud									
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P		N	C	SE	N	O	SE	CV	D	P	
19C/19	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
1642C/833	1	3	100.00	0.00	3	95.83	4.17	-	-	0.423	3	100.00	0.00	3	95.83	4.17	-	+	0.423		3	0.00	0.00	3	0.00	0.00	-	o	1.000	
4537C/979	1	0	--	--	3	96.67	3.33	-		---	0	--	--	3	96.67	3.33	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			100.00	0.00		96.25	3.75		+			100.00	0.00		96.25	3.75		+				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
19C/19	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
1642C/833	2	2	77.50	22.50	3	93.07	4.66	-	-	0.653	2	77.50	22.50	3	93.07	4.66	-	-	0.653		2	0.00	0.00	3	0.00	0.00	-	o	1.000	
4537C/979	2	0	--	--	3	100.00	0.00	-		---	0	--	--	3	100.00	0.00	-		---		0	--	--	3	0.00	0.00	-		---	
Habitat Means			77.50	22.50		96.55	2.35		-			77.50	22.50		96.55	2.35		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	
19C/19	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---		0	--	--	0	--	--	-		---	
1642C/833	3	3	80.83	9.82	2	90.00	10.00	-	-	0.662	3	80.83	9.82	2	90.00	10.00	-	-	0.662		3	0.00	0.00	2	0.00	0.00	-	o	1.000	
4537C/979	3	0	--	--	2	76.25	23.75	-		---	0	--	--	2	76.25	23.75	-		---		0	--	--	2	0.00	0.00	-		---	
Habitat Means			80.80	9.80		83.15	16.90		-			80.80	9.80		83.15	16.90		-				0.00	0.00		0.00	0.00		o		
Fisher's		Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z	Power	---		Power-50%		---	P-value		---	z
Stouffer's		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---		Power	---		Power-50%		---	P-value		---	

x At least one site pair p value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.23. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai, Sheltered Rocky. August 1990. Cleared September 1989.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	Mvd	Total Algae N	C	SE	N	O	SE	CV	D	P	Total Fucus gardneri (P) N	C	SE	N	O	SE	CV	D	P	Total Invertebrates							
14.2C/14.2	1	0	--	--	0	--	--	--		---	0	--	--	0	--	--	--		---	0	--	--	0	--	--	--		---
62762C/50983	1	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	0.00	0.00	3	0.00	0.00	-	o	1.000	3	10.83	8.46	3	5.00	1.44	-	+	0.825
Habitat Means			0.00	0.00		0.00	0.00		o			0.00	0.00		0.00	0.00		o			10.80	8.50		5.00	1.40			
Fisher's		Power ---			Power-50%		--- P-value		---	z	Power ---			Power-50%		--- P-value		---	z	Power ---			Power-50%		--- P-value		---	z
Stouffer's		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---	
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	15.00	9.46	3	34.17	32.92	-	-	0.657	3	11.67	10.44	3	33.33	33.33	-	-	0.653	3	30.00	20.00	3	5.83	3.63	-	+	0.230
Habitat Means			15.00	9.50		34.20	32.90		-			11.70	10.40		33.30	33.30		-			30.00	20.00		5.80	3.60		+	
Fisher's		Power ---			Power-50%		--- P-value		---	z	Power ---			Power-50%		--- P-value		---	z	Power ---			Power-50%		--- P-value		---	z
Stouffer's		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---	
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	36.93	22.80	0	--	--	-		---	3	0.83	0.83	0	--	--	-		---	3	27.37	13.70	0	--	--	-		---
Habitat Means			36.90	22.80		--	--					0.80	0.80		--	--					27.40	13.70		--	--			
Fisher's		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---	
Stouffer's		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Total Substrate N	C	SE	N	O	SE	CV	D	P	Rock N	C	SE	N	O	SE	CV	D	P	Sand and Mud							
14.2C/14.2	1	0	--	--	0	--	--	--		---	0	--	--	0	--	--	--		---	0	--	--	0	--	--	--		---
62762C/50983	1	3	89.17	8.46	3	95.00	1.44	-	-	0.825	3	89.17	8.46	3	95.00	1.44	-	-	0.825	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			89.20	8.50		95.00	1.40		-			89.20	8.50		95.00	1.40		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%		--- P-value		---	z	Power ---			Power-50%		--- P-value		---	z	Power ---			Power-50%		--- P-value		---	z
Stouffer's		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---	
14.1C/14.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	2	3	55.00	13.77	3	60.00	30.03	-	-	0.992	3	55.00	13.77	3	60.00	30.03	-	-	0.992	3	0.00	0.00	3	0.00	0.00	-	o	1.000
Habitat Means			55.00	13.80		60.00	30.00		-			55.00	13.80		60.00	30.00		-			0.00	0.00		0.00	0.00		o	
Fisher's		Power ---			Power-50%		--- P-value		---	z	Power ---			Power-50%		--- P-value		---	z	Power ---			Power-50%		--- P-value		---	z
Stouffer's		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---	
14.1C/14.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
14.2C/14.2	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62762C/50983	3	3	35.70	9.23	0	--	--	-		---	3	31.53	7.31	0	--	--	-		---	3	4.17	4.17	0	--	--	-		---
Habitat Means			35.70	9.20		--	--					31.50	7.30		--	--					4.20	4.20		--	--			
Fisher's		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---	
Stouffer's		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---		Power ---			Power-50%		--- P-value		---	

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.24. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Coarse Textured. August 1990. Cleared September 1989.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; dashes = insufficient data.

Site Pair	Mvd	Total Algae N	C	SE	N	O	SE	CV	D	P	Total Fucus gardneri (P) N	C	SE	N	O	SE	CV	D	P	Total Invertebrates N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62802C/50226	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	1.25	1.25	-		---
Habitat Means			--	--		0.00	0.00					--	--		0.00	0.00					--	--		1.30	1.30			
Fisher's		Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---		
Stouffer's		Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---		
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62802C/50226	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
Habitat Means			--	--		0.00	--					--	--		0.00	--					--	--		0.00	--			
Fisher's		Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---		
Stouffer's		Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---		
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	3	0	--	--	1	5.00	--	-		---	0	--	--	1	5.00	--	-		---	0	--	--	1	2.50	--	-		---
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		5.00	--					--	--		5.00	--					--	--		2.50	--			
Fisher's		Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---		
Stouffer's		Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Total Substrate N	C	SE	N	O	SE	CV	D	P	Rock N	C	SE	N	O	SE	CV	D	P	Sand and Mud N	C	SE	N	O	SE	CV	D	P
50389C/50389	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62802C/50226	1	0	--	--	2	98.75	1.25	-		---	0	--	--	2	98.75	1.25	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		98.80	1.30					--	--		98.80	1.30					--	--		0.00	0.00			
Fisher's		Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---		
Stouffer's		Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---		
50389C/50389	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
62802C/50226	2	0	--	--	1	100.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	100.00	--	-		---
Habitat Means			--	--		100.00	--					--	--		0.00	--					--	--		100.00	--			
Fisher's		Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---		
Stouffer's		Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---		
50389C/50389	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
51091C/51091	3	0	--	--	1	92.50	--	-		---	0	--	--	1	92.50	--	-		---	0	--	--	1	0.00	--	-		---
62802C/50226	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		92.50	--					--	--		92.50	--					--	--		0.00	--			
Fisher's		Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---		
Stouffer's		Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---			Power ---		Power-50%		--- P-value		---		

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.25. Algal Percent Cover. Totals and Seasonal Groups. Cook Inlet/Kenai. Estuarine. July 1990. 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 Algae								Total Fucus gardneri (P)								Total Invertebrates							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	1	0	--	--	3	12.50	6.29	-		---	0	--	--	3	5.00	5.00	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		6.25	6.30					--	--		2.50	5.00					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	1	25.00	--	-		---	0	--	--	1	25.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	2	0	--	--	3	10.83	5.83	-		---	0	--	--	3	6.67	6.67	-		---	0	--	--	3	2.50	0.00	-		---
Habitat Means			--	--		17.90	5.80					--	--		15.85	6.70					--	--		1.25	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50981	3	0	--	--	2	50.00	50.00	-		---	0	--	--	2	6.25	6.25	-		---	0	--	--	2	2.50	2.50	-		---
Habitat Means			--	--		50.00	50.00					--	--		6.30	6.30					--	--		2.50	2.50			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

		Total Substrate								Rock								Sand and Mud							
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
C15.1C/C15.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	1	0	--	--	1	100.00	--	-		---	0	--	--	1	100.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	1	0	--	--	3	87.50	6.29	-		---	0	--	--	3	87.50	6.29	-		---	0	--	--	3	0.00	0.00	-		---
Habitat Means			--	--		93.75	6.30					--	--		93.75	6.30					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	2	0	--	--	1	75.00	--	-		---	0	--	--	1	75.00	--	-		---	0	--	--	1	0.00	--	-		---
50981C/50981	2	0	--	--	3	86.67	5.83	-		---	0	--	--	3	60.83	30.63	-		---	0	--	--	3	25.83	25.83	-		---
Habitat Means			--	--		80.85	5.80					--	--		67.90	30.60					--	--		12.90	25.80			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
C15.1C/C15.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50221	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
50981C/50981	3	0	--	--	2	47.50	47.50	-		---	0	--	--	2	47.50	47.50	-		---	0	--	--	2	0.00	0.00	-		---
Habitat Means			--	--		47.50	47.50					--	--		47.50	47.50					--	--		0.00	0.00			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.26. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. 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 Algae							Total Fucus gardneri (P)							Total Invertebrates						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
30196C/30196	1	0	--	--	3	43.33	28.66	-		---	0	--	--	3	11.67	10.44	-		---	0	--	--	3	0.83	0.83	-		---
31252C/31248	1	0	--	--	2	0.00	0.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	2.50	2.50	-		---
31252C/31252	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3	0.00	0.00	1	0.00	--	-	o	---	3	0.00	0.00	1	0.00	--	-	o	---	3	5.00	1.44	1	0.00	--	-	+	---
Habitat Means			0.00	0.00		14.43	14.35					0.00	0.00		3.90	5.20					5.00	1.40		1.10	1.65			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---	0	--	--	1	0.00	--	-		---
31252C/31248	2	0	--	--	3	6.67	6.67	-		---	0	--	--	3	1.67	1.67	-		---	0	--	--	3	38.33	31.14	-		---
31252C/31252	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	3	15.83	14.60	1	0.00	--	-	+	---	3	15.83	14.60	1	0.00	--	-	+	---	3	57.50	22.68	1	0.00	--	-	+	---
Habitat Means			15.80	14.60		2.23	6.70					15.80	14.60		0.57	1.70					57.50	22.70		12.77	31.10			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0	--	--	2	56.25	31.25	-		---	0	--	--	2	7.50	7.50	-		---	0	--	--	2	0.00	0.00	-		---
31252C/31248	3	0	--	--	2	5.00	5.00	-		---	0	--	--	2	0.00	0.00	-		---	0	--	--	2	2.50	2.50	-		---
31252C/31252	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		30.65	18.15					--	--		3.75	3.75					--	--		1.25	1.25			
Fisher's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

			Total Substrate							Rock							Sand and Mud						
Site Pair	Mvd	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P	N	C	SE	N	O	SE	CV	D	P
31252C/31248	1	0		--	2	97.50	2.50	-		---	0	--	--	2	97.50	2.50	-		---	0	--	--	2	0.00	0.00	-		---
31252C/31252	1	0		--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	1	3		1.44	1	100.00	--	-	-	---	3	86.67	7.12	1	100.00	--	-	-	---	3	8.33	8.33	1	0.00	--	-	-	---
Habitat Means				1.40		84.43	16.00					86.70	7.10		84.43	16.00					8.30	8.30		0.00	0.00			
Fisher's		Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	2	0		--	1	100.00	--	-		---	0	--	--	1	100.00	--	-		---	0	--	--	1	0.00	--	-		---
31252C/31248	2	0		--	3	55.00	27.54	-		---	0	--	--	3	55.00	27.54	-		---	0	--	--	3	0.00	0.00	-		---
31252C/31252	2	0		--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	2	3		10.93	1	100.00	--	-	-	---	3	26.67	10.93	1	100.00	--	-	-	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means				10.90		85.00	27.50					26.70	10.90		85.00	27.50					0.00	0.00		0.00	0.00			
Fisher's		Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
30196C/30196	3	0		--	2	40.00	35.00	-		---	0	--	--	2	40.00	35.00	-		---	0	--	--	2	0.00	0.00	-		---
31252C/31248	3	0		--	2	92.50	2.50	-		---	0	--	--	2	92.50	2.50	-		---	0	--	--	2	0.00	0.00	-		---
31252C/31252	3	0		--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
99826C/33141	3	0		--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means				--		66.25	18.75					--	--		66.25	18.75					--	--		0.00	0.00			
Fisher's		Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---
Stouffer's		Power			Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---	Power	---		Power-50%		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table C-4.27. Algal Percent Cover. Totals and Seasonal Groups. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. Cleared September 1989.
Results of statistical differences between means of control and oiled site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; CV = coefficient of variation; SE = standard error; D = direction of difference; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = **power to detect a 50% difference; dashes = insufficient data.**

Site Pair	Mvd	Total Algae N	C	SE	N	O	SE	CV	D	P	Total Fucus gardneri (F) N	C	SE	N	O	SE	CV	D	P	Total Invertebrates N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	1	3	0.83	0.83	1	7.50	--	-	-	---	3	0.83	0.83	1	7.50	--	-	-	---	3	0.00	0.00	1	27.50	--	-	-	---
Habitat Means			0.80	0.80		7.50	--					0.80	0.80		7.50	--					0.00	0.00		27.50	--			
Fisher's		Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---
Stouffer's		Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	2	3	1.67	1.67	1	0.00	--	-	+	---	3	1.67	1.67	1	0.00	--	-	+	---	3	2.50	1.44	1	17.50	--	-	-	---
Habitat Means			1.70	1.70		0.00	--					1.70	1.70		0.00	--					2.50	1.40		17.50	--			
Fisher's		Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---
Stouffer's		Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		--	--					--	--		--	--					--	--		--	--			
Fisher's		Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---
Stouffer's		Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Site Pair	Mvd	Total Substrate N	C	SE	N	O	SE	CV	D	P	Rock N	C	SE	N	O	SE	CV	D	P	Sand and Mud N	C	SE	N	O	SE	CV	D	P
13.1C/13.1	1	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	1	3	99.17	0.83	1	65.00	--	-	+	---	3	99.17	0.83	1	65.00	--	-	+	---	3	0.00	0.00	1	0.00	--	-	o	---
Habitat Means			99.20	0.80		65.00	--					99.20	0.80		65.00	--					0.00	0.00		0.00	--			
Fisher's		Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---
Stouffer's		Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---
13.1C/13.1	2	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	2	3	93.33	0.83	1	82.50	--	-	+	---	3	93.33	0.83	1	80.00	--	-	+	---	3	0.00	0.00	1	2.50	--	-	-	---
Habitat Means			93.30	0.80		82.50	--					93.30	0.80		80.00	--					0.00	0.00		2.50	--			
Fisher's		Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---
Stouffer's		Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---
13.1C/13.1	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
94935C/31288	3	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---	0	--	--	0	--	--	-		---
Habitat Means			--	--		--	--					--	--		--	--					--	--		--	--			
Fisher's		Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---
Stouffer's		Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---	Power ---			Power-50% ---		---	P-value		---

x At least one site pair p-value < 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.