

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 VI

APPENDIX D

Raymond C. Highsmith'
Michael S. Stekoll²
Willard E. Barber'
Lyman McDonald³
Dale Strickland'
Wallace P. Erickson³

'School of Fisheries and Ocean Sciences
University of Alaska Fairbanks
Fairbanks, Alaska 99775-1090

²Juneau Center, School of Fisheries and Ocean Sciences
University of Alaska Fairbanks
Juneau, Alaska 99801

'Western EcoSystems Technology
1402 South Greely Highway
Cheyenne, Wyoming 82007

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Table D-1. Power values calculated for a two-sample t-test assuming a sample size of $n_1=n_2=6$ quadrats per site and $\alpha=0.05$. The coefficient of variation of the mean (cv) is calculated by dividing the pooled estimate of variance between the two sites by the control mean. B is the oiled mean expressed as a percentage of the control, i.e. $B=\mu_o/\mu_c$).

		B									
cv		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
	0.10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9993	0.9422	0.4872	0.0500
	0.20	1.0000	1.0000	1.0000	0.9993	0.9912	0.9422	0.7795	0.4872	0.2020	0.0500
	0.30	0.9993	0.9959	0.9825	0.9422	0.8504	0.6925	0.4872	0.2853	0.1352	0.0500
	0.40	0.9758	0.9422	0.8794	0.7795	0.6440	0.4872	0.3324	0.2020	0.1082	0.0500
	0.50	0.8948	0.8241	0.7291	0.6137	0.4872	0.3620	0.2501	0.1598	0.0940	0.0500
	0.60	0.7795	0.6925	0.5931	0.4872	0.3823	0.2853	0.2020	0.1352	0.0854	0.0500
	0.70	0.6652	0.5782	0.4872	0.3969	0.3118	0.2358	0.1712	0.1193	0.0796	0.0500
	0.80	0.5670	0.4872	0.4080	0.3324	0.2630	0.2020	0.1503	0.1082	0.0754	0.0500
	0.90	0.4872	0.4167	0.3487	0.2853	0.2280	0.1778	0.1352	0.1002	0.0723	0.0500
	1.00	0.4237	0.3620	0.3038	0.2501	0.2020	0.1598	0.1239	0.0940	0.0699	0.0500

Table D-2. Taxonomic levels for laboratory identification of invertebrates collected from quadrats.

Protozoa Foraminiferida Metazoa Porifera Cnidaria Hydrozoa Scyphozoa Anthozoa Actiniidae Platyhelminthes Nemertea Nematoda Annelida Polychaeta Errant Polynoidae Sigalionidae Chrysopetalidae Phyllodocidae Ilesonidae Syllidae Nereidae Nephtyidae Sphaerodoridae Glyceridae Goniadidae Onuphiidae Eunicidae Lumbrineridae Dorvilleidae Sedentary Orbinidae Parsonidae Spionidae Cirratulidae Phalligasteridae Scalibregmidae Opheidae Caprellidae Arenicolidae Maldanidae Oweniidae Amphicidae Ampharetidae Terebellidae Sabellidae Serpulidae Spirorbidae Archannelidae Nerillidae Protodrilidae Dinophilidae Saccociridae Polygordidae Oligochaeta Hirudinea Mollusca Gastropoda Lottiidae <i>Lottia pelta</i> <i>Lottia digitalis</i> <i>Lottia borealis</i> <i>Tectura scutum</i> <i>Tectura persona</i> <i>Tectura fenestrata</i> Lepetidae <i>Cryptobranchia alba</i> Trochidae <i>Margarites pupillus</i> <i>Lirularia succincta</i> <i>Margarites beringensis</i>	Turbinidae <i>Moelleria</i> sp. Lacunidae <i>Locuna</i> sp. Littorinidae <i>Littorina sitkana</i> <i>Littorina scutulata</i> Rissoidae <i>Alvinia</i> sp. <i>Cingula</i> sp. <i>Falsocingula</i> sp. <i>Boreocingula</i> sp. <i>Boreocingula katherinae</i> Skeneopsidae <i>Skeneopsis alaskana</i> Caecidae <i>Fartulum occidentale</i> <i>Micranellum crebricinctum</i> Cerithiidae <i>Bititium</i> sp. Cerithiopsidae <i>Cerithiopsis</i> sp. Trichotropidae <i>Trichotropis insignis</i> Calyptraeidae <i>Crepidula perforans</i> Velutiniidae Naticidae <i>Natica</i> sp. Muricidae <i>Ocenebra interfossa</i> <i>Trophonopsis clathratus</i> <i>Boreotrophon</i> sp. Nucellidae <i>Nucella lamellosa</i> <i>Nucella lima</i> Columbellidae <i>Alia tuberosa</i> Buccinidae <i>Buccinum baeri</i> <i>Searlesia diru</i> Volutidae <i>Arctomelon stearnsi</i> Marginellidae <i>Granulina margaritula</i> Opisthobranchia Pyramidellidae <i>Odostomia</i> sp. Cylichnidae <i>Cylichna</i> sp. Diaphanidae <i>Diaphana</i> sp. Nudibranchia Onchidorididae <i>Onchidoris bilamellata</i> Siphonariidae <i>Siphonaria thersites</i> Onchidiidae <i>Onchidella borealis</i> Polyplacophora Lepidochitonidae <i>Lepidochitona dentiens</i> <i>Tonicella lineata</i> <i>Schizoplax brandtii</i> <i>Dendrochiton</i> sp. Mopaliidae <i>Katharina tunicata</i> <i>Mopalia citata</i> <i>Mopalia lignosa</i> <i>Mopalia mucosa</i> Acanthochitonidae <i>Cryptochiton stelleri</i>	Bivalvia Nuculidae <i>Nucula tenuis</i> Mytilidae <i>Mytilus edulis</i> <i>Musculus</i> sp. <i>Musculus discors</i> <i>Musculus vernicosus</i> <i>Modiolus modiolus</i> Anomiidae <i>Pododesmus cepio</i> Lucinidae <i>Lucina tenuisculpta</i> Thyasiridae Ungulinidae <i>Diplodonta aleutica</i> <i>Diplodonta impolita</i> Kellidae <i>Kellia laperosii</i> Montacutidae <i>Pseudopythina compressa</i> <i>Myrella tumida</i> Turtoniidae <i>Turtonia minuta</i> Astartidae Cardiidae <i>Clinocardium</i> sp. <i>Clinocardium nuttallii</i> Macluridae Tellinidae <i>Macoma</i> sp. <i>Macoma calcarata</i> <i>Macoma nasuta</i> <i>Macoma inquinata</i> <i>Macoma balthica</i> Veneridae <i>Saxidomus gigantea</i> <i>Protothaca staminea</i> Myidae <i>Cryptomya californica</i> <i>Mya arenaria</i> <i>Mya truncata</i> Hiattellidae <i>Hiattella arctica</i> Arthropoda Arachnida Pseudoscorpionida Acari Pycnogonida Crustacea Branchiopoda Cladocera Ostracoda Copepoda Cirripedia Balanomorpha Balanidae <i>Chthamalus dalli</i> <i>Balanus crenatus</i> <i>Balanus glandula</i> Archaeobalanidae <i>Semibalanus balanoides</i> <i>Semibalanus cariosus</i> Malacostraca Leptostraca Nebaliidae <i>Nebalia</i> sp. Mysida Mysidae Camacea Tanaidacea Isopoda Idoteidae <i>Idotea wosnesenskii</i> Cryptoniscidae <i>Cryptothir balani</i>	Amphipoda Caprellidea Euphausiacea Decapoda Caridea Pandalidae Astacidae Astacidae Anomura Paguridae <i>Pagurus</i> sp. Lithodidae <i>Haplogaster merrisi</i> Brachyura Majidae <i>Hyas lyratu</i> <i>Pugettia gracilis</i> Atelecyclusidae <i>Telmessus cheiragonus</i> Canceridae <i>Cancer oregonensis</i> Grapsidae <i>Hemigrapsus oregonensis</i> Insecta Collembola Odonata Coleoptera Diptera Chilopoda Sipuncula Echiura Echiuridae Priapulida Tardigrada Bryozoa Echinodermata Asteroidea Echinasteridae <i>Henricia</i> sp. Asteriidae <i>Evasteria troscheli</i> <i>Leptasterias hexactis</i> <i>Pisaster ochraceus</i> <i>Pycnopodia heliothoides</i> Ophiuroidea Echinoidea Strongylocentrotidae <i>Strongylocentrotus</i> sp. <i>Strongylocentrotus purpuratus</i> Holothuroidea <i>Cucumaria</i> sp. Enteropneusta Ascidacea Osteichthyes Cottidae <i>Clinocottus</i> sp. <i>Clinocottus aculeiceps</i> <i>Oligocottus maculosus</i> Cyclopteridae <i>Liparis</i> sp. Stichaeidae <i>Anoplarchus purpurascens</i> <i>Phytichthys chirus</i> <i>Xiphister atropurpureus</i> Pholididae <i>Pholis</i> sp. <i>Pholis lacta</i> Miscellaneous: Egg cases Fragments: animal

Table D-3 . Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1989. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

Control Site Not Sampled

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Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
					Sigalionidae	616.667	20.686	0.203	0.329
					Oligochaeta	412.222	13.828	0.773	1.252
					Balanidae	319.700	10.724	1.666	2.697
					Mytilidae	300.000	10.063	6.002	9.715
					Littorinidae	254.444	8.535	18.302	29.623
					Caecidae	216.667	7.268	0.040	0.065
					Amphipoda	163.333	5.479	0.651	1.054
					Lottidae	128.889	4.324	5.004	8.100
					Paguridae	112.222	3.764	7.526	12.181
					Polychaeta	63.333	2.124	0.034	0.056
					Isopoda	50.000	1.677	0.054	0.088
					Platyhelminthes	46.667	1.565	0.017	0.027
					Nematoda	42.222	1.416	*	*
					Sabellidae	42.222	1.416	*	*
					Turtoniidae	42.222	1.416	0.032	0.052
					Annelida	20.000	0.671	0.029	0.047
					Copepoda	17.778	0.596	*	*
					Archaeobalanidae	15.856	0.532	0.478	0.774
					Nemertea	15.556	0.522	0.370	0.599
					Nucellidae	12.222	0.410	0.753	1.219
					Cumacea	8.889	0.298	*	*
					Foraminiferida	7.778	0.261	0.006	0.009
					Hiatellidae	7.778	0.261	4.228	6.843
					Cryptoniscidae	7.778	0.261	*	*
					Cirratulidae	6.667	0.224	0.009	0.014
					Montacutidae	6.667	0.224	0.011	0.018
					Veneridae	6.667	0.224	5.164	8.359
					Ostracoda	6.667	0.224	*	*
					Insecta	5.556	0.186	0.011	0.018
					Syllidae	4.444	0.149	*	*
					Buccinidae	3.333	0.112	1.927	3.118
					Arachnida	3.333	0.112	*	*
					Lacunidae	2.222	0.075	0.007	0.011
					Rissoiidae	2.222	0.075	*	*
					Asteriidae	2.222	0.075	3.794	6.141
					Porifera	1.111	0.037	0.216	0.349
					Nereidae	1.111	0.037	0.021	0.034
					Spionidae	1.111	0.037	*	*
					Serpulidae	1.111	0.037	*	*
					Grapsidae	1.111	0.037	4.452	7.206
					Chironomidae	1.111	0.037	*	*

Table D-3 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1989.

Control Site Not Sampled				601					
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
					Archaeobalanidae	2428.477	37.843	172.690	24.738
					Mytilidae	845.897	13.182	482.412	69.107
					Annelida	711.111	11.081	0.339	0.049
					Littorinidae	662.376	10.322	18.746	2.685
					Turtoniidae	601.691	9.376	0.138	0.020
					Caecidae	254.534	3.966	0.338	0.048
					Balanidae	144.857	2.257	1.482	0.212
					Nematoda	92.222	1.437	0.003	0.000
					Spirorbidae	87.778	1.368	0.018	0.003
					Ostracoda	86.667	1.351	0.001	0.000
					Amphipoda	76.667	1.195	0.249	0.036
					Lottidae	71.316	1.111	3.371	0.483
					Oligochaeta	70.000	1.091	0.031	0.004
					Tanaidacea	55.556	0.866	0.008	0.001
					Isopoda	55.556	0.866	0.506	0.072
					Chironomidae	25.556	0.398	*	*
					Acari	20.000	0.312	*	*
					Paguridae	20.000	0.312	0.863	0.124
					Lepidochitonidae	16.667	0.260	0.783	0.112
					Insecta	15.556	0.242	0.104	0.015
					Copepoda	14.444	0.225	0.010	0.001
					Spionidae	9.523	0.148	0.004	0.001
					Polynoidae	6.349	0.099	0.198	0.028
					Amphictenidae	6.349	0.099	0.151	0.022
					Montacutidae	4.517	0.070	0.027	0.004
					Veneridae	4.517	0.070	7.810	1.119
					Nucellidae	4.444	0.069	4.211	0.603
					Rissoidae	3.487	0.054	0.012	0.002
					Hiatellidae	3.388	0.053	2.651	0.380
					Lacunidae	3.333	0.052	0.016	0.002
					Cumacea	3.333	0.052	0.001	0.000
					Foraminiferida	2.222	0.035	0.001	0.000
					Platyhelminthes	2.222	0.035	*	*
					Arachnida	2.222	0.035	*	*
					Nemertea	1.111	0.017	*	*
					Polychaeta	1.111	0.017	*	*
					Enteropneusta	1.111	0.017	0.420	0.060
					Stichaeidae	1.111	0.017	0.473	0.068

Table D-3 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1989.

Control Site Not Sampled				598			
Taxa	Abundance		Biomass			Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)	(no. m ⁻²)	(g m ⁻²)	(%)
Archaeobalanidae	9215.573		58.016		182.836		21.998
Mytilidae	2366.667		14.899		573.306		68.978
Balanidae	1319.982		8.310		5.769		0.694
Copepoda	647.778		4.078		0.002		0.000
Nematoda	551.111		3.470		0.001		0.000
Turtonidae	445.556		2.805		0.112		0.014
Littorinidae	362.590		2.283		3.768		0.453
Oligochaeta	221.111		1.392		*		*
Loftiidae	158.552		0.998		2.854		0.343
Sabellidae	120.591		0.759		*		*
Rissoidae	87.498		0.551		0.045		0.005
Serpulidae	73.694		0.464		0.004		0.001
Sigalionidae	65.687		0.414		0.016		0.002
Amphipoda	44.444		0.280		0.091		0.011
Lacunidae	33.892		0.213		0.029		0.004
Isopoda	24.444		0.154		0.159		0.019
Chironomidae	23.333		0.147		0.007		0.001
Caecidae	21.282		0.134		0.002		0.000
Cirratulidae	14.450		0.091		0.019		0.002
Paguridae	14.444		0.091		7.327		0.882
Veneridae	12.222		0.077		36.902		4.440
Ostracoda	8.889		0.056		*		*
Syllidae	7.783		0.049		0.005		0.001
Nemertea	7.778		0.049		0.002		0.000
Nucellidae	6.884		0.043		15.253		1.835
Trochidae	6.643		0.042		0.013		0.002
Platyhelminthes	4.444		0.028		0.003		0.000
Orbiniidae	3.350		0.021		0.004		0.001
Hiatellidae	3.333		0.021		0.109		0.013
Skeneppidae	2.658		0.017		*		*
Asteriidae	2.222		0.014		2.501		0.301
Nereidae	1.111		0.007		*		*
Arachnida	1.111		0.007		*		*
Acari	1.111		0.007		*		*
Cumacea	1.111		0.007		*		*
Asteroidea	1.111		0.007		0.003		0.000

Table D-3 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1989.

Control Site Not Sampled				1522					
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
					Mytilidae	5473.594	31.429	164.954	55.234
					Turtoniidae	4394.183	25.231	1.676	0.561
					Archaeobalanidae	3830.327	21.994	57.691	19.317
					Littorinidae	1696.761	9.743	11.458	3.837
					Balanidae	958.562	5.504	11.509	3.854
					Lacunidae	718.361	4.125	0.366	0.123
					Acari	173.333	0.995	*	*
					Lottiidae	68.659	0.394	5.634	1.887
					Isopoda	46.667	0.268	0.356	0.119
					Nucellidae	18.333	0.105	38.246	12.806
					Paguridae	15.556	0.089	1.526	0.511
					Amphipoda	12.222	0.070	0.030	0.010
					Rissoidae	4.551	0.026	0.007	0.002
					Asteriidae	4.444	0.026	5.194	1.739

Table D-4 . Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1990 1st visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

4825C					1424				
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Copepoda	7160.000	17.656	0.071	0.029	Copepoda	12262.000	33.926	0.202	0.312
Mytilidae	6953.645	17.147	34.310	14.196	Nematoda	9180.000	25.399	0.110	0.170
Nematoda	6037.222	14.887	0.003	0.001	Mytilidae	5500.152	15.218	2.791	4.314
Turtoniidae	4146.415	10.225	2.606	1.078	Acari	3331.889	9.219	*	*
Acari	3800.000	9.371	0.017	0.007	Oligochaeta	1203.444	3.330	0.112	0.174
Chironomidae	2362.944	5.827	0.029	0.012	Platyhelminthes	943.778	2.611	*	*
Ostracoda	1619.167	3.993	0.047	0.019	Foraminiferida	825.000	2.283	*	*
Littorinidae	1578.828	3.893	21.459	8.879	Spirorbidae	594.489	1.645	0.393	0.607
Oligochaeta	1555.556	3.836	0.220	0.091	Balanidae	558.336	1.545	2.738	4.232
Amphipoda	1424.167	3.512	2.278	0.942	Turtoniidae	452.390	1.252	0.202	0.313
Spirorbidae	1159.808	2.860	0.613	0.254	Sabellidae	331.419	0.917	0.004	0.006
Platyhelminthes	484.167	1.194	0.010	0.004	Russoidae	206.982	0.573	0.118	0.183
Isopoda	408.333	1.007	1.926	0.797	Lacunidae	160.040	0.443	0.529	0.817
Lottidae	277.489	0.684	5.702	2.359	Lottidae	130.493	0.361	6.188	9.565
Nerillidae	263.517	0.650	*	*	Littorinidae	121.522	0.336	3.699	5.717
Balanidae	226.802	0.559	4.878	2.018	Archaeobalanidae	82.887	0.229	1.017	1.572
Skeneopsidae	215.212	0.531	0.006	0.003	Syllidae	75.516	0.209	0.126	0.195
Lacunidae	149.073	0.368	0.015	0.006	Amphipoda	36.889	0.102	0.202	0.312
Archaeobalanidae	104.587	0.258	8.353	3.456	Cirratulidae	34.746	0.096	0.359	0.555
Cirratulidae	99.008	0.244	0.124	0.051	Nucellidae	27.206	0.075	41.886	64.737
Cumacea	96.667	0.238	0.006	0.002	Nereidae	23.970	0.066	0.056	0.087
Foraminiferida	95.000	0.234	*	*	Hiatellidae	10.013	0.028	0.024	0.038
Russoidae	88.175	0.217	0.069	0.028	Trochidae	8.858	0.025	0.187	0.289
Sabellidae	38.772	0.096	*	*	Paguridae	8.333	0.023	2.309	3.569
Nemertea	24.444	0.060	0.249	0.103	Bryozoa	5.556	0.015	0.154	0.239
Sigalionidae	23.637	0.058	0.003	0.001	Polynoidae	3.886	0.011	0.001	0.002
Caecidae	21.545	0.053	*	*	Onchidiidae	3.246	0.009	0.042	0.065
Spionidae	17.874	0.044	*	*	Nudibranchia	2.531	0.007	*	*
Bryozoa	17.500	0.043	0.064	0.027	Sigalionidae	1.674	0.005	*	*
Hiatellidae	13.175	0.032	0.686	0.284	Isopoda	1.667	0.005	0.001	0.001
Nereidae	10.988	0.027	0.006	0.002	Pyramidellidae	1.610	0.004	0.001	0.001
Paguridae	10.833	0.027	1.305	0.540	Columbellidae	1.579	0.004	0.020	0.031
Syllidae	10.389	0.026	0.011	0.005	Skeneopsidae	1.287	0.004	*	*
Balanomorpha	9.167	0.023	0.017	0.007	Serpulidae	1.111	0.003	*	*
Asteriidae	8.333	0.021	143.672	59.445	Idoteidae	1.111	0.003	0.047	0.073
Pseudoscorpionida	6.667	0.016	0.012	0.005	Stichaeidae	1.111	0.003	0.126	0.194
Pycnogonida	6.667	0.016	*	*	Spionidae	0.690	0.002	*	*
Paraonidae	5.084	0.013	*	*	Insecta	0.667	0.002	0.002	0.003
Stichaeidae	4.167	0.010	0.516	0.213	Buccinidae	0.643	0.002	0.416	0.642
Nucellidae	3.664	0.009	3.590	1.485	Hydrozoa	0.556	0.002	*	*
Insecta	3.333	0.008	*	*	Lepidochitonidae	0.556	0.002	0.018	0.028
Trochidae	2.943	0.007	0.061	0.025	Pseudoscorpionida	0.556	0.002	*	*
Diptera	2.612	0.006	*	*	Diptera	0.556	0.002	*	*
Veneridae	1.669	0.004	8.754	3.622	Chironomidae	0.556	0.002	*	*
Tanaidacea	1.667	0.004	*	*	Sipuncula	0.556	0.002	*	*
Collembola	1.667	0.004	*	*	Asteriidae	0.556	0.002	0.613	0.948
					Pholididae	0.556	0.002	0.007	0.010

Table D-4 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1990 1st visit.

453C

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Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Mytilidae	18724.941	45.560	139.839	42.354	Mytilidae	1343.889	30.847	33.858	30.580
Oligochaeta	4967.667	12.087	0.575	0.174	Oligochaeta	883.333	20.275	0.417	0.377
Copepoda	4389.333	10.680	0.102	0.031	Littorinidae	530.139	12.168	28.939	26.137
Nematoda	2094.555	5.096	0.038	0.011	Nematoda	241.667	5.547	0.001	0.001
Acari	1737.889	4.228	0.017	0.005	Lottidae	194.810	4.472	14.569	13.158
Archaeobalanidae	1696.002	4.127	99.971	30.278	Amphipoda	170.000	3.902	1.751	1.582
Platyhelminthes	1673.000	4.071	0.086	0.026	Sigalionidae	150.000	3.443	0.056	0.050
Littorinidae	1030.361	2.507	32.592	9.871	Copepoda	113.333	2.601	0.037	0.034
Balanidae	1023.757	2.491	6.345	1.922	Chironomidae	113.333	2.601	0.041	0.037
Turtonidae	952.834	2.318	0.400	0.121	Balanidae	112.524	2.583	2.037	1.839
Chironomidae	594.333	1.446	0.102	0.031	Archaeobalanidae	88.587	2.033	7.260	6.557
Amphipoda	499.889	1.216	3.218	0.975	Paguridae	78.333	1.798	5.742	5.186
Spirorbidae	391.677	0.953	0.061	0.019	Turtonidae	77.222	1.773	0.050	0.045
Lottidae	290.267	0.706	16.118	4.882	Acari	45.556	1.046	*	*
Foraminiferida	282.778	0.688	*	*	Rissoidae	35.556	0.816	0.086	0.077
Syllidae	252.576	0.627	0.116	0.035	Nemertea	30.556	0.701	0.312	0.282
Sabellidae	117.993	0.287	0.001	0.000	Platyhelminthes	21.111	0.485	0.041	0.037
Ostracoda	91.222	0.222	*	*	Caecidae	21.111	0.485	0.001	0.001
Opisthobranchia	77.219	0.188	0.006	0.002	Diptera	21.111	0.485	0.018	0.016
Nucellidae	33.393	0.081	19.425	5.883	Nucellidae	15.598	0.358	13.390	12.094
Paguridae	31.556	0.077	1.837	0.556	Idoteidae	15.556	0.357	0.194	0.176
Nemertea	22.222	0.054	0.123	0.037	Syllidae	12.778	0.293	0.007	0.007
Nereidae	17.839	0.043	0.058	0.017	Cirratulidae	11.018	0.253	0.043	0.039
Cryptoniscidae	15.778	0.038	0.015	0.004	Onchidiidae	10.000	0.230	0.322	0.291
Insecta	14.556	0.035	0.004	0.001	Nereidae	3.333	0.077	0.037	0.033
Idoteidae	9.444	0.023	0.786	0.238	Veneridae	3.333	0.077	0.487	0.440
Lacunidae	7.058	0.017	0.049	0.015	Trochidae	2.222	0.051	0.029	0.026
Collembola	6.000	0.015	0.002	0.001	Buccinidae	1.675	0.038	0.982	0.887
Nerillidae	5.679	0.014	*	*	Ostracoda	1.667	0.038	*	*
Isopoda	5.000	0.012	0.021	0.006	Foraminiferida	1.111	0.026	*	*
Buccinidae	4.732	0.012	1.138	0.345	Sabellidae	1.111	0.026	*	*
Diptera	4.667	0.011	0.005	0.002	Spirorbidae	1.111	0.026	*	*
Lepidochitonidae	4.444	0.011	0.149	0.045	Montacutidae	1.111	0.026	0.012	0.011
Muricidae	3.447	0.008	0.002	0.001	Isopoda	1.111	0.026	*	*
Hiatellidae	3.226	0.008	0.026	0.008	Spionidae	0.648	0.015	*	*
Columbellidae	2.758	0.007	0.077	0.023	Lacunidae	0.556	0.013	*	*
Bryozoa	2.222	0.005	0.089	0.027	Cryptoniscidae	0.556	0.013	*	*
Capitellidae	1.671	0.004	*	*					
Asteriidae	1.667	0.004	0.509	0.154					
Pseudoscorpionida	1.333	0.003	0.001	0.000					
Onchidiidae	1.327	0.003	0.016	0.005					
Cirratulidae	1.113	0.003	*	*					
Stichaeidae	1.111	0.003	0.032	0.010					
Caecidae	0.713	0.002	*	*					
Anthozoa	0.667	0.002	0.014	0.004					
Trochidae	0.596	0.001	0.008	0.003					
Phyllodocidae	0.567	0.001	*	*					
Spionidae	0.557	0.001	*	*					
Mopaliidae	0.556	0.001	6.199	1.877					
Asteroidea	0.556	0.001	*	*					

Table D-4 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1990 1st visit.

601C					601				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	2448.015	34.750	295.618	59.637	Archaeobalanidae	2494.922	37.811	156.530	37.946
Mytilidae	1493.311	21.198	118.460	23.898	Mytilidae	692.876	10.501	194.659	47.189
Nematoda	645.667	9.165	0.009	0.002	Nematoda	670.000	10.154	0.014	0.003
Turtoniidae	409.227	5.809	0.255	0.051	Littorinidae	413.189	6.262	14.832	3.596
Littorinidae	399.533	5.671	14.203	2.865	Spirorbidae	401.111	6.079	0.659	0.160
Balanidae	256.985	3.648	16.102	3.248	Balanidae	374.746	5.679	5.155	1.250
Acari	221.222	3.140	0.002	0.000	Oligochaeta	220.000	3.334	0.132	0.032
Lacunidae	194.655	2.763	0.053	0.011	Turtoniidae	202.466	3.068	0.141	0.034
Lottidae	181.259	2.573	0.094	1.835	Amphipoda	167.778	2.543	0.967	0.234
Spirorbidae	142.000	2.016	0.184	0.037	Lottidae	163.477	2.478	4.804	1.165
Ostracoda	137.333	1.949	0.003	0.001	Copepoda	123.333	1.869	0.003	0.001
Chironomidae	104.619	1.485	0.017	0.003	Isopoda	112.778	1.709	0.769	0.186
Oligochaeta	88.556	1.257	0.111	0.022	Chironomidae	88.143	1.336	0.054	0.013
Paguridae	47.444	0.673	5.305	1.070	Cirratulidae	83.889	1.271	0.103	0.025
Copepoda	44.222	0.628	*	*	Cecidae	69.026	1.046	0.067	0.016
Tanaidacea	40.667	0.577	0.013	0.003	Rissoidae	56.023	0.849	0.084	0.020
Amphipoda	38.333	0.544	0.152	0.031	Sigalionidae	42.037	0.637	0.011	0.003
Rissoidae	21.662	0.307	0.017	0.003	Acari	31.111	0.471	*	*
Sigalionidae	14.522	0.206	0.003	0.001	Diptera	31.025	0.470	0.045	0.011
Diptera	13.270	0.188	0.103	0.021	Paguridae	25.556	0.387	3.422	0.829
Buccinidae	8.465	0.120	7.270	1.467	Tanaidacea	20.556	0.312	0.006	0.002
Isopoda	8.333	0.118	0.022	0.004	Phyllodoctidae	15.000	0.227	0.027	0.006
Nemertea	8.111	0.115	0.051	0.016	Nemertea	13.889	0.210	0.112	0.027
Hiattellidae	8.017	0.114	0.304	0.061	Polynoidae	10.556	0.160	0.003	0.001
Sabellidae	8.000	0.114	*	*	Foraminiferida	8.333	0.126	*	*
Skeneopsidae	4.510	0.064	*	*	Cumacea	6.667	0.101	*	*
Spionidae	4.493	0.064	*	*	Veneridae	6.166	0.093	16.962	4.112
Collembola	4.444	0.063	*	*	Platyhelminthes	5.000	0.076	*	*
Cryptoniscidae	4.000	0.057	0.035	0.007	Syllidae	5.000	0.076	*	*
Cumacea	3.889	0.055	*	*	Hiattellidae	4.472	0.068	0.549	0.133
Serpulidae	3.333	0.047	*	*	Nereidae	4.444	0.067	0.010	0.002
Nereidae	3.333	0.047	0.003	0.001	Lepidochitonidae	3.889	0.059	0.031	0.007
Cirratulidae	3.000	0.043	0.005	0.001	Montacutidae	3.413	0.052	0.010	0.002
Pseudoscorpionida	2.874	0.041	0.002	0.000	Spionidae	3.333	0.051	*	*
Foraminiferida	2.778	0.039	*	*	Sabellidae	2.315	0.035	*	*
Nerillidae	2.667	0.038	*	*	Tellinidae	2.275	0.034	2.227	0.540
Cerithiopsidae	2.667	0.038	*	*	Nerillidae	2.222	0.034	*	*
Syllidae	2.530	0.036	0.017	0.003	Onchidiidae	2.222	0.034	0.032	0.008
Platyhelminthes	2.444	0.035	*	*	Capitellidae	1.759	0.027	0.056	0.014
Nucellidae	2.333	0.033	0.003	0.001	Nucellidae	1.667	0.025	0.627	0.152
Onchidiidae	2.278	0.032	2.062	0.416	Holothuroidea	1.667	0.025	0.936	0.227
Veneridae	2.268	0.032	0.103	0.021	Stichaeidae	1.667	0.025	0.121	0.029
Nudibranchia	2.000	0.028	23.319	4.704	Chilopoda	1.111	0.017	0.003	0.001
Stichaeidae	1.453	0.021	*	*	Echiuridae	1.111	0.017	0.466	0.113
Phyllodoctidae	1.333	0.019	0.018	0.004	Porifera	0.556	0.008	*	*
Balanomorpha	0.667	0.009	*	*	Annelida	0.556	0.008	0.002	0.001
Atelecyclidae	0.667	0.009	*	*	Goniadidae	0.556	0.008	*	*
Chilopoda	0.556	0.008	2.751	0.555	Saccocirridae	0.556	0.008	*	*
					Gastropoda	0.556	0.008	0.003	0.001
					Pyramidellidae	0.556	0.008	0.002	0.000
					Insecta	0.556	0.008	0.001	0.000
					Collembola	0.556	0.008	*	*
					Bryozoa	0.556	0.008	0.119	0.029
					Asteridae	0.556	0.008	7.736	1.875
					Pholididae	0.556	0.008	0.012	0.003

Table D-4 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1990 1st visit.

598C					598				
TAXA	ABUNDANCE (no. m ⁻²)	(%)	BIOMASS (g m ⁻²)	(%)	TAXA	ABUNDANCE (no. m ⁻²)	(%)	BIOMASS (g m ⁻²)	(%)
Archaeobalanidae	1804.512	53.861	169.065	51.815	Archaeobalanidae	4030.704	42.650	162.136	55.512
Mytilidae	547.778	16.350	125.722	38.531	Mytilidae	1387.302	14.679	64.138	21.959
Littorinidae	340.701	10.169	14.877	4.560	Nematoda	581.111	6.149	0.012	0.004
Oligochaeta	196.111	5.854	0.076	0.023	Oligochaeta	567.778	6.008	0.386	0.132
Lottidae	147.020	4.388	6.537	2.004	Balanidae	534.501	5.656	15.493	5.305
Balanidae	61.894	1.847	2.571	0.788	Turtoniidae	406.090	4.297	0.216	0.074
Nematoda	41.111	1.227	0.001	0.000	Littorinidae	393.894	4.168	10.447	3.577
Sigalionidae	40.278	1.202	0.002	0.001	Copepoda	336.111	3.556	0.016	0.006
Amphipoda	26.111	0.779	0.114	0.035	Lottidae	213.095	2.255	6.821	2.267
Platyhelminthes	21.667	0.647	0.016	0.005	Amphipoda	211.667	2.240	0.682	0.233
Acari	21.111	0.630	*	*	Caecidae	169.156	1.790	0.064	0.022
Cirratulidae	13.333	0.398	0.017	0.005	Sigalionidae	167.222	1.769	0.057	0.019
Turtoniidae	13.333	0.398	0.021	0.006	Isopoda	92.778	0.982	0.680	0.233
Syllidae	11.111	0.332	0.009	0.003	Rissoidae	69.993	0.741	0.089	0.031
Nucellidae	10.612	0.317	5.978	1.832	Cirratulidae	56.111	0.594	0.268	0.092
Isopoda	8.889	0.265	0.038	0.012	Acari	55.556	0.588	*	*
Chironomidae	7.222	0.216	0.002	0.001	Chironomidae	42.596	0.451	0.015	0.005
Diptera	6.111	0.182	0.026	0.008	Platyhelminthes	22.778	0.241	0.011	0.004
Nemertea	5.000	0.149	0.034	0.010	Sabellidae	11.667	0.123	0.001	0.000
Sabellidae	4.999	0.148	*	*	Veneridae	9.406	0.100	13.992	4.791
Paguridae	3.889	0.116	0.253	0.078	Nucellidae	8.456	0.089	9.225	3.159
Collembola	3.889	0.116	0.001	0.000	Diptera	7.689	0.081	0.020	0.007
Pseudoscorpionida	2.222	0.066	0.002	0.001	Hiatellidae	7.491	0.079	0.454	0.156
Chilopoda	2.222	0.066	0.004	0.001	Ostracoda	7.222	0.076	*	*
Spionidae	1.945	0.058	0.003	0.001	Spirorbidae	6.667	0.071	0.004	0.002
Veneridae	1.667	0.050	0.705	0.216	Syllidae	5.556	0.059	0.001	0.000
Balanomorpha	1.667	0.050	0.197	0.060	Nereidae	5.556	0.059	1.711	0.586
Cumacea	1.667	0.050	*	*	Paguridae	5.556	0.059	1.908	0.653
Copepoda	1.111	0.033	*	*	Nemertea	5.000	0.053	0.273	0.093
Siphonariidae	0.556	0.017	0.003	0.001	Asteriidae	3.889	0.041	2.279	0.780
Onchidiidae	0.556	0.017	0.009	0.003	Onchidiidae	2.877	0.030	0.091	0.031
					Tellinidae	2.853	0.030	0.242	0.083
					Echiuridae	2.778	0.029	0.002	0.001
					Spionidae	2.222	0.024	*	*
					Cumacea	2.222	0.024	*	*
					Cryptoniscidae	2.222	0.024	*	*
					Collembola	2.222	0.024	*	*
					Foraminiferida	1.667	0.018	0.003	0.001
					Tanaidacea	1.667	0.018	0.001	0.000
					Phyllococidae	1.111	0.012	0.002	0.001
					Stichaeidae	1.111	0.012	0.113	0.039
					Kelliidae	0.652	0.007	0.006	0.002
					Trochidae	0.587	0.006	0.006	0.002
					Porifera	0.556	0.006	*	*
					Polychaeta	0.556	0.006	*	*
					Idoteidae	0.556	0.006	0.001	0.000
					Atelecyclidae	0.556	0.006	0.402	0.138
					Insecta	0.556	0.006	*	*
					Ophiuroidea	0.556	0.006	*	*
					Pholididae	0.556	0.006	0.008	0.003

Table D-4 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1990 1st visit.

1522C					1522				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	4156.643	47.473	281.812	51.391	Mytilidae	6449.820	39.765	149.844	48.154
Mytilidae	1428.895	16.319	222.440	40.564	Archaeobalanidae	3913.657	24.129	100.588	32.325
Oligochaeta	771.222	8.808	0.427	0.078	Oligochaeta	1036.111	6.388	0.200	0.064
Littorinidae	504.513	5.762	20.073	3.660	Turtoniidae	1009.625	6.225	0.777	0.250
Acanth	454.333	5.189	*	*	Nematoda	940.000	5.795	0.004	0.001
Balanidae	292.579	3.342	5.886	1.073	Balanidae	829.796	5.116	10.291	3.307
Chironomidae	246.333	2.813	*	*	Littorinidae	805.215	4.964	21.011	6.752
Amphipoda	198.333	2.265	0.245	0.045	Copepoda	523.333	3.227	0.004	0.001
Nematoda	185.667	2.121	0.003	0.001	Acanth	178.333	1.099	*	*
Lottidae	180.517	2.062	8.966	1.635	Amphipoda	171.389	1.057	1.583	0.509
Turtoniidae	110.628	1.263	0.075	0.014	Lottidae	128.505	0.792	7.273	2.337
Isopoda	70.889	0.810	0.414	0.075	Chironomidae	55.000	0.339	0.013	0.004
Copepoda	65.667	0.750	*	*	Isopoda	49.167	0.303	0.399	0.128
Sigalionidae	26.667	0.305	0.009	0.002	Paguridae	46.389	0.286	4.595	1.477
Paguridae	17.556	0.201	1.823	0.332	Platyhelminthes	14.722	0.091	0.014	0.004
Cumacea	8.444	0.096	*	*	Syllidae	14.583	0.090	0.062	0.020
Platyhelminthes	6.444	0.074	*	*	Nucellidae	10.798	0.067	12.831	4.123
Rissoidae	4.613	0.053	0.003	0.001	Sabellidae	8.333	0.051	*	*
Nucellidae	3.908	0.045	4.215	0.769	Idoteidae	7.222	0.045	0.642	0.206
Ostracoda	3.889	0.044	*	*	Bryozoa	6.667	0.041	0.427	0.137
Diptera	3.111	0.036	0.038	0.007	Rissoidae	5.333	0.033	0.011	0.004
Foraminiferida	2.222	0.025	*	*	Diptera	5.278	0.033	0.008	0.003
Spirorbidae	2.000	0.023	*	*	Nereidae	2.917	0.018	0.062	0.020
Buccinidae	2.000	0.023	0.546	0.100	Nemertea	2.500	0.015	0.075	0.024
Pseudoscorpionida	1.222	0.014	0.002	0.000	Spirorbidae	1.667	0.010	0.003	0.001
Idoteidae	1.222	0.014	0.420	0.077	Cumacea	1.667	0.010	*	*
Coleoptera	1.111	0.013	*	*	Insecta	0.833	0.005	*	*
Tellinidae	0.676	0.008	0.015	0.003	Pholididae	0.833	0.005	0.463	0.149
Veneridae	0.676	0.008	0.922	0.168					
Porifera	0.667	0.008	0.004	0.001					
Nemertea	0.667	0.008	0.010	0.002					
Spionidae	0.667	0.008	*	*					
Trochidae	0.667	0.008	0.002	0.000					
Hiatellidae	0.569	0.006	0.015	0.003					
Capitellidae	0.556	0.006	0.001	0.000					

Table D-5 . Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1990 2nd visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

4825C					1424				
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Oligochaeta	962.778	13.565	0.806	0.587	Mytilidae	3455.210	44.504	8.925	15.250
Mytilidae	920.728	12.973	19.714	14.352	Turtoniidae	839.790	10.817	0.642	1.097
Chironomidae	800.082	11.273	0.077	0.056	Balanidae	745.834	9.606	2.566	4.384
Turtoniidae	746.778	10.522	0.487	0.355	Nematoda	507.778	6.540	0.014	0.024
Littorinidae	703.337	9.910	5.164	3.759	Lacunidae	485.380	6.252	0.666	1.138
Archaeobalanidae	518.582	7.307	39.466	28.731	Oligochaeta	427.778	5.510	0.084	0.143
Nematoda	446.000	6.284	0.018	0.013	Littorinidae	303.677	3.911	1.859	3.175
Cirratulidae	328.303	4.626	0.432	0.315	Copepoda	190.556	2.454	0.003	0.006
Sigalionidae	293.728	4.139	0.064	0.047	Chironomidae	146.111	1.882	0.033	0.056
Spirorbidae	209.842	2.957	0.099	0.072	Rissoidae	114.223	1.471	0.157	0.269
Amphipoda	127.961	1.803	0.289	0.211	Amphipoda	86.667	1.116	0.318	0.544
Rissoidae	99.916	1.408	0.060	0.044	Spirorbidae	85.556	1.102	0.015	0.025
Sabellidae	99.446	1.401	0.007	0.005	Lottidae	77.546	0.999	3.192	5.453
Caecidae	94.627	1.333	0.016	0.012	Nereidae	55.000	0.708	0.137	0.234
Paguridae	87.778	1.237	5.028	3.660	Archaeobalanidae	54.721	0.705	0.317	0.542
Nemertea	83.372	1.175	0.268	0.195	Hiattellidae	27.778	0.358	0.101	0.173
Balanidae	75.233	1.060	9.038	6.580	Cirratulidae	26.111	0.336	0.369	0.630
Diptera	56.365	0.794	0.010	0.007	Nucellidae	21.341	0.275	37.151	63.475
Lacunidae	49.586	0.699	0.017	0.012	Syllidae	21.111	0.272	0.015	0.025
Lottidae	49.374	0.696	2.277	1.658	Trochidae	15.009	0.193	0.006	0.010
Isopoda	46.961	0.662	0.115	0.084	Opisthobranchia	11.142	0.144	0.007	0.011
Cumacea	32.294	0.455	0.003	0.002	Sabellidae	7.222	0.093	*	*
Syllidae	30.836	0.434	0.024	0.018	Diptera	6.667	0.086	*	*
Platyhelminthes	24.850	0.350	0.004	0.003	Opheliidae	5.556	0.072	0.002	0.003
Copepoda	22.667	0.319	*	*	Asterioidea	5.556	0.072	0.002	0.004
Pseudoscorpionida	21.183	0.298	0.025	0.018	Paguridae	5.000	0.064	0.634	1.083
Asteriidae	14.333	0.202	2.943	2.143	Columbellidae	3.898	0.050	0.043	0.073
Coleoptera	13.928	0.196	0.001	0.001	Capitellidae	3.889	0.050	0.004	0.008
Trochidae	13.409	0.189	0.009	0.007	Spionidae	3.333	0.043	0.002	0.003
Skeneopsidae	13.023	0.183	0.005	0.003	Nemertea	2.778	0.036	0.010	0.017
Hiattellidae	12.675	0.179	0.001	0.001	Isopoda	2.778	0.036	0.007	0.011
Collembola	11.809	0.166	0.006	0.004	Stichaeidae	2.778	0.036	0.170	0.290
Nucellidae	10.635	0.150	22.284	16.223	Buccinidae	2.227	0.029	0.175	0.299
Onchidiidae	9.885	0.139	0.177	0.129	Platyhelminthes	2.222	0.029	*	*
Opheliidae	9.259	0.130	*	*	Phyllodocidae	2.222	0.029	*	*
Buccinidae	7.063	0.100	4.584	3.337	Acari	1.667	0.021	*	*
Tanaidacea	6.667	0.094	0.003	0.002	Idoteidae	1.667	0.021	0.086	0.146
Acari	5.889	0.083	*	*	Balanomorpha	1.111	0.014	*	*
Echinoidea	5.333	0.075	0.004	0.003	Cryptoniscidae	1.111	0.014	*	*
Stichaeidae	5.333	0.075	0.217	0.158	Pholididae	1.111	0.014	0.153	0.261
Nereidae	4.564	0.064	0.002	0.001	Onchidiidae	0.556	0.007	*	*
Siphonariidae	4.444	0.063	0.006	0.004	Lepidochitonidae	0.556	0.007	0.561	0.959
Veneridae	3.335	0.047	23.523	17.125	Atelecyclidae	0.556	0.007	0.027	0.046
Phyllodocidae	3.084	0.043	*	*	Bryozoa	0.556	0.007	0.078	0.133
Chilopoda	2.222	0.031	0.008	0.006	Asteriidae	0.556	0.007	*	*
Spionidae	1.339	0.019	*	*					
Arachnida	1.333	0.019	*	*					
Bryozoa	1.333	0.019	0.005	0.003					
Ascidacea	1.333	0.019	0.007	0.005					
Orbiniidae	0.669	0.009	0.001	0.001					
Amphictenidae	0.668	0.009	*	*					
Annelida	0.667	0.009	0.003	0.002					
Grapsidae	0.556	0.008	0.063	0.046					

Table D-5 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1990 2nd visit.

453C					453				
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Mytilidae	12110.000	53.591	141.962	34.358	Mytilidae	2168.889	33.188	57.669	46.943
Balanidae	1417.921	6.275	14.237	3.449	Oligochaeta	1158.556	17.728	0.226	0.184
Oligochaeta	1303.889	5.770	0.200	0.048	Nematoda	663.000	10.145	0.019	0.016
Amphipoda	1272.222	5.630	2.392	0.579	Amphipoda	491.889	7.527	0.785	0.639
Nematoda	1257.222	5.564	0.041	0.010	Littorinidae	401.181	6.139	23.218	18.900
Turtonidae	1215.556	5.379	0.812	0.197	Chironomidae	317.991	4.866	0.047	0.036
Chironomidae	1180.000	5.222	0.177	0.043	Archaeobalanidae	300.641	4.600	11.908	9.693
Littorinidae	952.121	4.213	35.459	8.589	Balanidae	272.359	4.168	6.950	5.658
Archaeobalanidae	675.968	2.991	191.827	46.467	Lottiidae	191.279	2.927	12.182	9.916
Lacupidae	246.351	1.090	0.436	0.106	Diptera	183.121	2.802	0.032	0.026
Lottiidae	198.947	0.880	8.306	2.012	Caecidae	60.751	0.930	0.016	0.013
Trochidae	165.686	0.733	0.091	0.022	Opheliidae	59.333	0.908	0.038	0.031
Spirorbidae	101.667	0.450	0.027	0.007	Paguridae	46.444	0.711	5.638	4.590
Syllidae	79.444	0.352	0.059	0.014	Turtonidae	44.556	0.682	0.032	0.026
Platyhelminthes	71.111	0.315	0.023	0.006	Copepoda	29.778	0.456	0.009	0.007
Nereidae	62.222	0.275	0.063	0.015	Isopoda	29.222	0.447	0.032	0.026
Isopoda	37.778	0.167	0.157	0.038	Nemertea	20.556	0.320	0.004	0.003
Coleoptera	27.778	0.123	0.007	0.002	Sigalionidae	11.333	0.173	0.004	0.003
Rissoidae	27.222	0.120	0.038	0.009	Stichaeidae	11.333	0.173	0.443	0.360
Nemertea	26.111	0.116	0.015	0.004	Lacunidae	8.683	0.133	0.005	0.004
Paguridae	23.333	0.103	1.681	0.407	Platyhelminthes	7.333	0.112	*	*
Hiattellidae	17.778	0.079	0.230	0.056	Syllidae	7.222	0.111	0.008	0.007
Nucellidae	15.138	0.067	9.463	2.292	Echinoidea	6.667	0.102	0.014	0.011
Diptera	15.000	0.066	0.008	0.002	Spionidae	6.000	0.092	0.004	0.003
Copepoda	14.444	0.064	*	*	Hiattellidae	6.000	0.092	0.001	0.001
Idoteidae	14.444	0.064	0.271	0.066	Nucellidae	4.693	0.072	3.541	2.883
Cumacea	13.333	0.059	0.003	0.001	Amphictenidae	4.667	0.071	0.002	0.002
Siphonariidae	11.197	0.050	0.147	0.036	Phyllodoctidae	3.333	0.051	0.005	0.004
Sabellidae	7.222	0.032	0.008	0.002	Cryptoniscidae	2.778	0.043	0.003	0.003
Spionidae	6.667	0.030	0.003	0.001	Rissoidae	2.715	0.042	0.001	0.001
Phyllodoctidae	4.444	0.020	0.002	0.001	Cumacea	2.667	0.041	*	*
Lepidochitonidae	3.889	0.017	0.489	0.118	Nereidae	2.000	0.031	0.001	0.001
Opheliidae	3.333	0.015	0.002	0.000	Acari	2.000	0.031	*	*
Serpulidae	3.333	0.015	0.752	0.182	Coleoptera	1.889	0.029	0.002	0.002
Acari	2.778	0.012	*	*	Montacutidae	1.333	0.020	0.003	0.002
Buccinidae	1.674	0.007	1.472	0.357	Glyceridae	0.667	0.010	0.011	0.009
Onchidiidae	1.667	0.007	0.003	0.001	Sabellidae	0.667	0.010	*	*
Cryptoniscidae	1.667	0.007	*	*	Caprellidea	0.667	0.010	*	*
Sipuncula	1.111	0.005	0.059	0.014	Asterioidea	0.667	0.010	*	*
Polynoidae	0.556	0.002	0.002	0.000					
Cirratulidae	0.556	0.002	*	*					
Pyramidellidae	0.556	0.002	0.002	0.000					
Opisthobranchia	0.556	0.002	*	*					
Mopaliidae	0.556	0.002	0.122	0.029					
Anomidae	0.556	0.002	1.725	0.418					
Pseudoscorpionida	0.556	0.002	0.002	0.001					
Bryozoa	0.556	0.002	0.003	0.001					
Cottidae	0.556	0.002	0.009	0.002					
Stichaeidae	0.556	0.002	0.033	0.008					

Table D-5 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1990 2nd visit.

601C					601				
Taxa	Abundance (no. m ⁻²)	Biomass (g m ⁻²)	Abundance (no. m ⁻²)	Biomass (g m ⁻²)	Taxa	Abundance (no. m ⁻²)	Biomass (g m ⁻²)	Abundance (no. m ⁻²)	Biomass (g m ⁻²)
Archaeobalanidae	3972.312	26.811	293.481	56.408	Archaeobalanidae	2719.458	28.291	153.015	29.429
Mytilidae	2474.544	16.702	150.011	28.833	Mytilidae	1158.333	12.050	327.016	62.895
Nematoda	1539.922	10.394	0.052	0.010	Nematoda	1080.111	11.236	0.027	0.005
Chironomidae	1338.135	9.032	0.094	0.018	Oligochaeta	853.111	8.875	0.233	0.045
Oligochaeta	1141.967	7.705	0.368	0.071	Chironomidae	776.667	8.080	0.082	0.016
Amphipoda	875.889	5.912	0.710	0.136	Turtoniidae	555.889	5.783	0.414	0.080
Lacunidae	571.155	3.855	0.593	0.114	Amphipoda	476.111	4.953	0.324	0.062
Balanidae	468.504	3.162	18.309	3.519	Littorinidae	447.054	4.651	15.161	2.916
Littorinidae	442.983	2.990	7.925	1.523	Spirorbidae	263.889	2.745	0.122	0.024
Spirorbidae	315.169	2.127	0.122	0.023	Sigalionidae	217.667	2.264	0.059	0.011
Isopoda	310.483	2.096	1.945	0.374	Balanidae	193.653	2.015	3.416	0.657
Diptera	294.517	1.988	1.459	0.280	Copepoda	147.778	1.537	0.013	0.003
Turtoniidae	202.679	1.368	0.188	0.036	Loftiidae	109.101	1.135	4.511	0.868
Lottidae	184.042	1.242	6.763	1.300	Rissoidae	86.026	0.895	0.132	0.025
Sigalionidae	101.222	0.685	0.028	0.005	Lacunidae	64.004	0.666	0.039	0.008
Cirratulidae	90.000	0.607	0.167	0.032	Phyllodocidae	55.689	0.579	0.045	0.009
Pseudoscorpionida	74.739	0.504	0.043	0.008	Cirratulidae	45.556	0.474	0.115	0.022
Nemertea	51.628	0.348	0.137	0.026	Platyhelminthes	43.444	0.452	0.036	0.007
Porifera	47.406	0.320	0.036	0.007	Sabellidae	41.778	0.435	*	*
Collembola	42.444	0.286	0.033	0.006	Nemertea	40.444	0.421	0.291	0.056
Sabellidae	32.594	0.220	*	*	Syllidae	35.467	0.369	0.037	0.007
Cumacea	29.333	0.198	0.007	0.001	Isopoda	33.889	0.353	0.186	0.036
Phyllodocidae	23.201	0.157	0.034	0.007	Diptera	22.778	0.237	0.044	0.008
Buccinidae	20.024	0.135	17.842	3.429	Trochidae	20.316	0.211	0.004	0.001
Copepoda	18.667	0.126	*	*	Paguridae	20.000	0.208	2.762	0.531
Paguridae	18.000	0.121	1.587	0.305	Porifera	18.333	0.191	0.010	0.002
Platyhelminthes	16.556	0.112	0.011	0.002	Tanaidacea	17.778	0.185	0.011	0.002
Caecidae	16.000	0.108	0.004	0.001	Cumacea	14.111	0.147	*	*
Cryptoniscidae	14.000	0.094	0.049	0.009	Opheliidae	10.311	0.107	*	*
Nereidae	13.354	0.090	0.045	0.009	Nereidae	9.444	0.098	0.059	0.011
Onchidiidae	11.333	0.076	0.145	0.028	Skeneopsidae	3.889	0.040	0.001	0.000
Opheliidae	10.019	0.068	0.001	0.000	Onchidiidae	3.889	0.040	0.066	0.013
Rissoidae	9.345	0.063	0.016	0.003	Spionidae	3.422	0.036	0.004	0.001
Asteroidea	7.333	0.049	0.004	0.001	Nucellidae	3.056	0.032	5.082	0.978
Spionidae	5.715	0.039	0.002	0.000	Polynoidae	2.778	0.029	0.004	0.001
Syllidae	5.339	0.036	0.007	0.001	Hiatellidae	2.778	0.029	0.055	0.011
Acari	4.667	0.032	0.001	0.000	Stichaeidae	2.222	0.023	0.098	0.019
Capitellidae	3.713	0.025	0.032	0.006	Coleoptera	1.778	0.018	*	*
Veneridae	3.333	0.022	11.029	2.120	Tellinidae	1.667	0.017	0.002	0.000
Tellinidae	2.961	0.020	0.391	0.075	Veneridae	1.667	0.017	4.207	0.809
Coleoptera	2.676	0.018	0.003	0.001	Montacutidae	1.111	0.012	0.003	0.001
Stichaeidae	2.667	0.018	0.132	0.025	Atelecyclidae	1.111	0.012	2.153	0.414
Nucellidae	1.889	0.013	6.475	1.245	Echiuridae	1.111	0.012	0.039	0.007
Hiatellidae	1.333	0.009	*	*	Bryozoa	1.111	0.012	0.055	0.011
Chilopoda	1.333	0.009	0.004	0.001	Orbiniidae	0.556	0.006	0.003	0.001
Skeneopsidae	0.667	0.005	*	*	Acari	0.556	0.006	*	*
					Idoteidae	0.556	0.006	0.001	0.000
					Cryptoniscidae	0.556	0.006	*	*
					Collembola	0.556	0.006	*	*

Table D-5 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1990 2nd visit.

598C				598					
TAXA	ABUNDANCE		BIOMASS		TAXA	ABUNDANCE		BIOMASS	
	(no m ⁻²)	(%)	(g m ⁻²)	(%)		(no m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	3563.114	33.447	224.895	51.259	Archaeobalanidae	3683.243	27.361	169.582	35.254
Oligochaeta	1891.928	17.760	0.718	0.164	Chironomidae	2444.233	18.157	0.275	0.057
Mytilidae	1473.979	13.836	167.788	38.243	Nematoda	1984.867	14.744	0.063	0.013
Chironomidae	735.333	6.903	0.084	0.019	Mytilidae	1433.551	10.649	211.751	44.020
Cirratulidae	641.000	6.017	0.888	0.202	Oligochaeta	1225.556	9.104	0.356	0.074
Nematoda	624.560	5.863	0.011	0.003	Balanidae	454.504	3.376	6.847	1.423
Littorinidae	329.176	3.090	16.288	3.713	Copepoda	293.889	2.183	0.008	0.002
Syllidae	286.451	2.689	0.200	0.046	Turtoniidae	286.083	2.125	0.161	0.033
Sigalionidae	207.442	1.947	0.059	0.013	Amphipoda	270.106	2.006	0.398	0.083
Lottidae	190.082	1.784	9.339	2.129	Littorinidae	226.743	1.684	4.321	0.898
Balanidae	166.286	1.561	5.402	1.231	Sigalionidae	206.184	1.532	0.075	0.016
Amphipoda	108.850	1.022	0.228	0.052	Isopoda	173.122	1.286	1.244	0.259
Turtoniidae	56.889	0.534	0.063	0.014	Cirratulidae	134.683	1.000	0.259	0.054
Sabellidae	52.447	0.492	*	*	Caecidae	128.932	0.958	0.048	0.010
Platyhelminthes	34.148	0.321	0.016	0.004	Lottidae	108.927	0.809	6.953	1.445
Diptera	31.778	0.298	0.066	0.015	Nemertea	48.256	0.358	0.224	0.047
Isopoda	30.294	0.284	0.062	0.014	Diptera	47.778	0.355	0.021	0.004
Nemertea	26.444	0.248	0.258	0.059	Platyhelminthes	41.667	0.310	0.018	0.004
Spirorbidae	18.667	0.175	0.009	0.002	Syllidae	33.918	0.252	0.026	0.005
Pseudoscorpionida	17.594	0.165	0.013	0.003	Rissoidae	29.256	0.217	0.030	0.006
Paguridae	17.297	0.162	2.886	0.658	Spirorbidae	25.969	0.193	0.003	0.001
Collembola	17.037	0.160	0.003	0.001	Acanthiidae	22.039	0.164	*	*
Rissoidae	16.761	0.157	0.031	0.007	Hiatellidae	18.990	0.141	0.907	0.189
Chilopoda	15.889	0.149	0.037	0.009	Nucellidae	17.575	0.131	43.165	8.973
Acanthiidae	15.150	0.142	0.001	0.000	Collembola	13.967	0.104	0.009	0.002
Caecidae	12.447	0.117	*	*	Lacunidae	12.929	0.096	0.008	0.002
Lacunidae	12.417	0.117	0.016	0.004	Phyllococidae	12.768	0.095	0.005	0.001
Hiatellidae	10.359	0.097	1.906	0.434	Sabellidae	12.264	0.091	*	*
Nucellidae	10.243	0.096	6.752	1.539	Spionidae	10.684	0.079	0.018	0.004
Phyllococidae	7.780	0.073	0.007	0.002	Nereidae	9.249	0.069	0.142	0.030
Asteroidea	6.000	0.056	0.005	0.001	Paguridae	8.889	0.066	2.681	0.557
Arachnida	4.444	0.042	*	*	Tanaidacea	8.411	0.062	0.004	0.001
Stichaeidae	4.220	0.040	0.450	0.102	Veneridae	5.959	0.044	28.723	5.971
Trochidae	3.135	0.029	0.002	0.000	Coleoptera	5.183	0.039	*	*
Coleoptera	2.667	0.025	0.003	0.001	Skeneopsidae	4.158	0.031	*	*
Cryptoniscidae	2.556	0.024	0.004	0.001	Stichaeidae	3.517	0.026	0.073	0.015
Buccinidae	2.014	0.019	0.182	0.041	Pseudoscorpionida	2.222	0.017	*	*
Onchidiidae	1.782	0.017	0.030	0.007	Trochidae	1.919	0.014	0.001	0.000
Copepoda	1.667	0.016	*	*	Onchidiidae	1.279	0.010	0.001	0.000
Skeneopsidae	1.343	0.013	0.001	0.000	Opisthobranchia	1.188	0.009	*	*
Porifera	0.667	0.006	0.003	0.001	Opheliidae	1.111	0.008	*	*
Nereidae	0.667	0.006	0.035	0.008	Cumacea	1.111	0.008	*	*
					Cryptoniscidae	1.111	0.008	0.004	0.001
					Asteriidae	1.111	0.008	0.017	0.004
					Actiniidae	0.556	0.004	1.193	0.248
					Polynoidae	0.556	0.004	*	*
					Tellinidae	0.556	0.004	*	*
					Atelecyclidae	0.556	0.004	0.654	0.136
					Echiuridae	0.556	0.004	0.762	0.158

Table D-5 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1990 2nd visit.

1522C					1522				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	2733.941	36.939	209.061	40.118	Mytilidae	11886.214	36.851	444.915	64.791
Mytilidae	1179.463	15.936	263.689	50.601	Archaeobalanidae	4361.502	13.522	167.096	24.334
Nematoda	577.222	7.799	0.010	0.002	Oligochaeta	4336.111	13.443	0.450	0.065
Chironomidae	560.717	7.576	0.073	0.014	Nematoda	2838.889	8.601	0.070	0.010
Turtonidae	504.426	6.815	0.421	0.081	Turtonidae	2031.431	6.298	1.814	0.264
Oligochaeta	415.000	5.607	0.137	0.026	Littorinidae	1495.704	4.637	25.105	3.656
Amphipoda	306.294	4.138	0.298	0.057	Chironomidae	1455.000	4.511	0.226	0.033
Littorinidae	289.848	3.916	11.357	2.179	Balanidae	1436.834	4.455	13.662	1.990
Balanidae	259.578	3.507	3.538	0.679	Amphipoda	833.333	2.584	1.422	0.207
Lottidae	117.369	1.586	8.951	1.718	Lacunidae	266.104	0.825	0.283	0.041
Diptera	106.506	1.439	0.471	0.090	Copepoda	188.333	0.584	0.001	0.000
Isopoda	89.261	1.206	0.459	0.088	Lottidae	167.194	0.518	8.175	1.191
Paguridae	39.628	0.535	1.225	0.235	Sigalionidae	152.222	0.472	0.046	0.007
Nemertea	31.111	0.420	0.037	0.007	Isopoda	122.778	0.381	0.865	0.126
Veneridae	30.372	0.410	15.414	2.958	Spirorbidae	122.114	0.379	0.107	0.016
Lacunidae	24.607	0.332	0.023	0.004	Platyhelminthes	117.778	0.365	0.081	0.012
Platyhelminthes	18.517	0.250	0.024	0.005	Syllidae	97.189	0.301	0.094	0.014
Cumacea	18.150	0.245	0.002	0.000	Porifera	83.333	0.258	0.078	0.011
Caecidae	17.561	0.237	0.014	0.003	Caecidae	40.680	0.126	0.011	0.002
Sigalionidae	14.817	0.200	0.006	0.001	Paguridae	39.444	0.122	3.296	0.480
Coleoptera	14.628	0.198	0.006	0.001	Sabellidae	32.243	0.100	*	*
Rissoidae	9.458	0.128	0.013	0.002	Nemertea	31.111	0.096	0.074	0.011
Nereidae	7.406	0.100	0.620	0.119	Rissoidae	24.260	0.075	0.055	0.008
Tellinidae	7.039	0.095	0.051	0.010	Nereidae	19.523	0.061	0.214	0.031
Montacutidae	4.628	0.063	0.040	0.008	Idoteidae	10.000	0.031	1.731	0.252
Hiatellidae	4.628	0.063	3.388	0.650	Diptera	10.000	0.031	0.020	0.003
Spirorbidae	3.889	0.053	0.002	0.000	Cryptoniscidae	8.889	0.028	*	*
Copepoda	3.889	0.053	*	*	Nucellidae	7.597	0.024	10.006	1.457
Cryptoniscidae	2.961	0.040	*	*	Trochidae	7.499	0.023	0.001	0.000
Opheliidae	1.667	0.023	0.001	0.000	Acari	5.000	0.016	0.002	0.000
Acari	1.667	0.023	*	*	Buccinidae	4.683	0.015	0.926	0.135
Opisthobranchia	0.556	0.008	0.001	0.000	Hiatellidae	4.583	0.014	0.250	0.036
Phyllodocidae	0.556	0.008	*	*	Coleoptera	3.333	0.010	*	*
Syllidae	0.556	0.008	*	*	Skeneopsidae	2.948	0.009	0.002	0.000
Spionidae	0.556	0.008	0.001	0.000	Phyllodocidae	1.704	0.005	*	*
Amphictenidae	0.556	0.008	0.144	0.028	Cumacea	1.667	0.005	*	*
Sabellidae	0.556	0.008	*	*	Bryozoa	1.667	0.005	0.027	0.004
Nerillidae	0.556	0.008	*	*	Stichaeidae	1.667	0.005	0.057	0.008
Buccinidae	0.556	0.008	0.107	0.020	Capitellidae	1.111	0.003	0.004	0.001
Atelecyclidae	0.556	0.008	1.526	0.293	Spionidae	0.558	0.002	*	*
					Opheliidae	0.558	0.002	*	*
					Actiniidae	0.556	0.002	0.322	0.047
					Veneridae	0.556	0.002	4.797	0.699
					Asteriidae	0.556	0.002	0.373	0.054
					Pholididae	0.556	0.002	0.030	0.004

Table D-6 . Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1991. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

4825C					1424				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
Littorinidae	683.679	25.413	15.654	17.292	Balanidae	13780.427	71.031	85.444	57.348
Archaeobalanidae	540.565	20.094	34.996	38.660	Mytilidae	1248.333	6.435	9.405	6.312
Turtoniidae	400.556	14.889	0.352	0.389	Archaeobalanidae	914.017	4.711	22.086	14.824
Mytilidae	387.891	14.419	4.089	4.517	Chironomidae	864.444	4.456	0.460	0.308
Copepoda	252.000	9.367	0.018	0.020	Rissoidae	497.862	2.566	0.594	0.398
Balanidae	123.658	4.597	4.762	5.260	Spirorbidae	291.111	1.501	0.386	0.259
Oligochaeta	52.113	1.937	0.022	0.024	Turtoniidae	268.889	1.386	0.265	0.178
Lottidae	25.580	0.951	0.946	1.045	Littorinidae	244.703	1.261	6.535	4.386
Spirorbidae	24.667	0.917	0.019	0.021	Nematoda	191.667	0.988	0.002	0.001
Cirratulidae	23.333	0.867	0.220	0.243	Lacunidae	183.584	0.946	3.359	2.255
Nematoda	22.664	0.842	0.001	0.001	Lottidae	183.544	0.946	6.262	4.203
Amphipoda	22.556	0.838	0.506	0.559	Diptera	168.333	0.868	0.087	0.059
Chironomidae	21.333	0.793	0.006	0.007	Amphipoda	132.778	0.684	1.062	0.713
Rissoidae	14.695	0.546	0.024	0.027	Copepoda	75.556	0.389	*	*
Onchidiidae	9.600	0.357	0.157	0.173	Oligochaeta	55.556	0.286	0.009	0.006
Nucellidae	9.248	0.344	27.139	29.980	Sabellidae	55.000	0.283	*	*
Siphonariidae	8.598	0.320	0.687	0.759	Cryptoniscidae	50.000	0.258	0.763	0.512
Acari	6.000	0.223	*	*	Hiatellidae	37.222	0.192	0.252	0.169
Skeneopsidae	5.598	0.208	0.003	0.004	Skeneopsidae	21.451	0.111	0.013	0.009
Syllidae	5.553	0.206	0.011	0.012	Trochidae	20.383	0.105	0.966	0.648
Collembola	5.444	0.202	0.005	0.005	Platyhelminthes	19.444	0.100	0.001	0.000
Platyhelminthes	5.333	0.198	0.001	0.002	Syllidae	18.889	0.097	0.009	0.006
Diptera	5.333	0.198	0.002	0.002	Cirratulidae	15.000	0.077	0.188	0.126
Pseudoscorpionida	5.111	0.190	0.003	0.003	Columbellidae	5.032	0.026	0.153	0.103
Nemertea	4.000	0.149	0.030	0.033	Buccinidae	4.459	0.023	1.218	0.817
Trochidae	3.732	0.139	0.068	0.075	Opisthobranchia	3.931	0.020	0.001	0.001
Buccinidae	3.499	0.130	0.493	0.544	Nucellidae	3.905	0.020	7.337	4.925
Lacunidae	3.433	0.128	0.018	0.020	Nemertea	3.889	0.020	0.041	0.027
Sabellidae	2.667	0.099	*	*	Nereidae	3.889	0.020	0.023	0.015
Hiatellidae	2.667	0.099	0.128	0.141	Bryozoa	3.889	0.020	1.184	0.795
Tanaidacea	2.667	0.099	0.001	0.001	Spionidae	3.333	0.017	0.001	0.001
Paguridae	1.778	0.066	0.036	0.040	Paguridae	3.333	0.017	0.232	0.156
Sigalionidae	0.667	0.025	*	*	Diaphanidae	2.808	0.014	0.006	0.004
Veneridae	0.667	0.025	0.111	0.123	Pyramidellidae	2.783	0.014	0.003	0.002
Ostracoda	0.667	0.025	*	*	Isopoda	2.778	0.014	0.003	0.002
Balanomorpha	0.667	0.025	0.006	0.007	Acari	2.222	0.011	*	*
Isopoda	0.667	0.025	0.005	0.005	Cumacea	2.222	0.011	*	*
Insecta	0.667	0.025	*	*	Idoteidae	2.222	0.011	0.011	0.007
Bryozoa	0.667	0.025	0.006	0.007	Caprellidae	2.222	0.011	*	*
					Polynoidae	1.667	0.009	*	*
					Porifera	1.111	0.006	*	*
					Hydrozoa	1.111	0.006	*	*
					Phyllozoocidae	1.111	0.006	*	*
					Echinoidea	1.111	0.006	0.078	0.053
					Stichaeidae	1.111	0.006	0.118	0.079
					Actinidae	0.556	0.003	0.159	0.107
					Capitellidae	0.556	0.003	0.001	0.001
					Onchidiidae	0.556	0.003	0.024	0.016
					Pholidae	0.556	0.003	0.250	0.168

Table D-6 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1991.

453C

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TAXA	ABUNDANCE	BIOMASS	TAXA	ABUNDANCE	BIOMASS
Mytilidae	8805.833	36.187	Mytilidae	1193.778	30.885
Balanidae	7903.075	32.477	Balanidae	772.778	19.993
Turtoniidae	1732.222	7.118	Littorinidae	544.214	14.080
Archaeobalanidae	1176.926	4.837	Turtoniidae	522.000	13.505
Littorinidae	992.705	4.079	Archaeobalanidae	356.116	9.213
Oligochaeta	702.778	2.888	Lottidae	140.223	3.628
Nematoda	485.000	1.993	Amphipoda	126.667	3.277
Lacunidae	460.777	1.894	Rissoidae	43.333	1.121
Lottidae	407.219	1.673	Oligochaeta	39.333	1.018
Chironomidae	365.639	1.503	Lacunidae	36.000	0.931
Amphipoda	299.167	1.229	Chironomidae	24.333	0.630
Platyhelminthes	165.000	0.678	Trochidae	22.667	0.586
Spirorbidae	132.500	0.545	Paguridae	9.889	0.256
Paguridae	124.444	0.511	Diptera	6.000	0.155
Diptera	94.089	0.387	Nematoda	5.333	0.138
Rissoidae	78.470	0.322	Cryptoniscidae	4.667	0.121
Sabellidae	71.667	0.295	Copepoda	3.889	0.101
Nerillidae	42.500	0.175	Nucellidae	3.009	0.078
Syllidae	37.222	0.153	Isopoda	2.667	0.069
Nucellidae	35.249	0.145	Spirorbidae	2.000	0.052
Pyramidellidae	27.394	0.113	Skeneopsidae	2.000	0.052
Skeneopsidae	26.220	0.108	Acari	1.333	0.034
Nemertea	23.889	0.098	Syllidae	1.111	0.029
Hiatellidae	22.500	0.092	Nemertea	0.667	0.017
Isopoda	21.111	0.087	Onchidiidae	0.667	0.017
Idoteidae	15.000	0.062	Platyhelminthes	0.556	0.014
Acari	11.944	0.049			
Hydrozoa	11.667	0.048			
Asteridae	10.278	0.042			
Nereidae	8.333	0.034			
Cryptoniscidae	8.333	0.034			
Siphonariidae	5.556	0.023			
Lepidochitonidae	5.000	0.021			
Onchidoriidae	3.333	0.014			
Bryozoa	3.333	0.014			
Spionidae	2.778	0.011			
Forifera	2.500	0.010			
Phyllodocidae	2.500	0.010			
Cumacea	2.500	0.010			
Trochidae	1.667	0.007			
Buccinidae	1.667	0.007			
Ostracoda	1.667	0.007			
Columbellidae	0.856	0.004			
Caprellidea	0.833	0.003			
Holothuroidea	0.833	0.003			

Table D-6 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1991.

601C					601				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	2965.151	55.547	418.133	66.414	Archaeobalanidae	2369.861	33.135	266.854	52.633
Mytilidae	807.555	15.128	140.814	22.366	Oligochaeta	1229.273	17.187	0.617	0.122
Littorinidae	420.890	7.885	16.707	2.654	Littorinidae	754.078	10.543	19.161	3.779
Turtoniidae	275.333	5.158	0.208	0.033	Turtoniidae	640.773	8.959	0.768	0.151
Balanidae	271.518	5.086	19.754	3.138	Mytilidae	497.278	6.953	207.572	40.941
Chironomidae	109.028	2.042	0.317	0.050	Cirratulidae	308.126	4.308	0.451	0.089
Nematoda	103.333	1.936	0.001	0.000	Balanidae	251.682	3.519	3.225	0.636
Lottidae	102.622	1.922	5.812	0.923	Amphipoda	169.778	2.374	0.657	0.130
Amphipoda	60.778	1.139	0.531	0.084	Paguridae	144.500	2.020	1.484	0.293
Oligochaeta	59.222	1.109	0.069	0.011	Chironomidae	139.503	1.950	0.090	0.018
Diptera	46.083	0.863	0.598	0.095	Lottidae	128.787	1.801	4.172	0.823
Onchidiidae	32.667	0.612	0.032	0.005	Diptera	94.556	1.322	0.045	0.009
Paguridae	20.333	0.381	0.190	0.030	Rissoidae	79.021	1.105	0.124	0.024
Isopoda	13.111	0.246	0.079	0.012	Syllidae	70.052	0.979	0.051	0.010
Platyhelminthes	9.333	0.175	0.007	0.001	Nematoda	64.500	0.902	0.013	0.003
Nemertea	5.889	0.110	0.103	0.016	Sigalionidae	51.079	0.714	0.009	0.002
Rissoidae	5.355	0.100	0.010	0.002	Platyhelminthes	48.775	0.682	0.018	0.004
Spirorbidae	3.333	0.062	0.007	0.001	Lacunidae	31.667	0.443	0.374	0.074
Veneridae	2.667	0.050	23.834	3.786	Isopoda	30.722	0.430	0.226	0.045
Copepoda	2.667	0.050	*	*	Copepoda	16.056	0.224	0.011	0.002
Nucellidae	2.578	0.048	0.277	0.044	Skeneopsidae	8.333	0.117	0.022	0.004
Buccinidae	2.000	0.037	1.948	0.309	Nemertea	7.109	0.099	0.095	0.019
Syllidae	1.778	0.033	0.011	0.002	Nereidae	3.333	0.047	0.205	0.040
Collembola	1.778	0.033	0.010	0.002	Cryptoniscidae	3.000	0.042	0.002	0.000
Sabellidae	1.556	0.029	*	*	Acari	2.500	0.035	0.015	0.003
Phyllodocidae	1.333	0.025	*	*	Trochidae	1.667	0.023	0.057	0.011
Hiattellidae	1.333	0.025	0.004	0.001	Tanaidacea	0.843	0.012	*	*
Ostracoda	1.333	0.025	*	*	Phyllodocidae	0.843	0.012	0.003	0.000
Cumacea	1.333	0.025	*	*	Spionidae	0.833	0.012	*	*
Pseudoscorpionida	1.222	0.023	0.006	0.001	Spirorbidae	0.667	0.009	0.179	0.035
Sigalionidae	1.000	0.019	*	*	Tellinidae	0.667	0.009	0.508	0.100
Anthozoa	0.667	0.012	*	*	Nucellidae	0.667	0.009	*	*
Trochidae	0.667	0.012	0.008	0.001	Cumacea	0.667	0.009	*	*
Lacunidae	0.667	0.012	0.017	0.003					
Skeneopsidae	0.667	0.012	*	*					
Idoteidae	0.667	0.012	0.046	0.007					
Bryozoa	0.667	0.012	0.048	0.008					

Table D-6 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1991.

598C

598

TAXA	Abundance		Biomass		TAXA	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	4527.029	67.041	521.430	76.544	Archaeobalanidae	2436.937	37.546	191.372	60.023
Mytilidae	564.889	8.365	115.752	16.992	Oligochaeta	927.517	14.290	0.575	0.180
Littorinidae	369.442	5.471	14.105	2.071	Littorinidae	595.928	9.182	15.228	4.776
Lottiidae	239.757	3.551	11.732	1.722	Mytilidae	510.955	7.872	61.155	19.181
Balanidae	222.747	3.299	14.767	2.168	Turtoniidae	452.754	6.976	0.338	0.106
Cirratulidae	158.539	2.348	0.417	0.061	Balanidae	297.696	4.587	9.838	3.086
Oligochaeta	158.333	2.345	0.121	0.018	Isopoda	203.850	3.141	0.544	0.171
Nematoda	104.222	1.543	0.006	0.001	Paguridae	197.664	3.045	2.416	0.758
Chironomidae	99.273	1.470	0.035	0.005	Nematoda	179.481	2.765	0.010	0.003
Diptera	61.355	0.909	0.096	0.014	Amphipoda	146.220	2.253	0.386	0.121
Sigalionidae	61.209	0.906	0.020	0.003	Lottiidae	120.438	1.856	4.936	1.548
Syllidae	52.344	0.775	0.047	0.007	Chironomidae	84.624	1.304	0.043	0.014
Turtoniidae	41.778	0.619	0.045	0.007	Spironidae	75.667	1.166	0.052	0.016
Platyhelminthes	31.778	0.471	0.024	0.003	Syllidae	38.769	0.597	0.030	0.010
Amphipoda	12.444	0.184	0.038	0.006	Cirratulidae	38.758	0.597	0.040	0.012
Paguridae	8.222	0.122	0.571	0.084	Ostracoda	33.333	0.514	*	*
Nemertea	6.333	0.094	0.128	0.019	Diptera	22.528	0.347	0.017	0.005
Spirorbidae	4.679	0.069	0.002	0.000	Sigalionidae	20.801	0.320	0.005	0.002
Collembola	4.150	0.061	0.003	0.000	Platyhelminthes	19.000	0.293	0.085	0.027
Phyllococidae	3.338	0.049	0.009	0.001	Nemertea	16.961	0.261	0.563	0.177
Chilopoda	2.778	0.041	0.009	0.001	Nucellidae	10.428	0.161	10.818	3.393
Acari	2.000	0.030	*	*	Acari	10.150	0.156	*	*
Copepoda	2.000	0.030	*	*	Trochidae	7.539	0.116	0.352	0.110
Nucellidae	1.674	0.025	1.050	0.154	Veneridae	6.900	0.106	18.543	5.816
Skeneopsidae	1.333	0.020	*	*	Rissoidae	5.949	0.092	0.059	0.018
Montacutidae	1.333	0.020	0.005	0.001	Collembola	5.365	0.083	0.002	0.001
Ostracoda	1.333	0.020	*	*	Tanaidacea	4.667	0.072	0.003	0.001
Cumacea	1.333	0.020	*	*	Copepoda	4.000	0.062	*	*
Tanaidacea	1.333	0.020	*	*	Lacunidae	3.778	0.058	0.057	0.018
Pseudoscorpionida	1.111	0.016	0.002	0.000	Chilopoda	2.961	0.046	0.003	0.001
Lacunidae	0.681	0.010	0.018	0.003	Caecidae	1.539	0.024	0.003	0.001
Terebellidae	0.669	0.010	*	*	Skeneopsidae	1.333	0.021	*	*
Myidae	0.667	0.010	0.165	0.024	Nereidae	1.111	0.017	*	*
Hiatellidae	0.667	0.010	*	*	Spionidae	0.673	0.010	*	*
Cryptoniscidae	0.667	0.010	0.002	0.000	Montacutidae	0.673	0.010	*	*
Stichaeidae	0.667	0.010	0.611	0.090	Hiatellidae	0.673	0.010	1.120	0.351
Insecta	0.556	0.008	0.005	0.001	Foraminiferida	0.667	0.010	*	*
					Porifera	0.556	0.009	0.229	0.072
					Sabellidae	0.556	0.009	*	*
					Pseudoscorpionida	0.556	0.009	0.003	0.001
					Bryozoa	0.556	0.009	0.007	0.002

Table D-6 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered rocky sites, 1991.

1522C					1522				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	4149.930	44.777	398.988	57.338	Mytilidae	5596.283	31.482	388.103	56.842
Mytilidae	1306.667	14.099	203.450	29.237	Archaeobalanidae	3321.943	18.687	198.233	29.033
Littorinidae	1229.927	13.271	24.258	3.486	Balanidae	2635.503	14.826	21.823	3.196
Balanidae	591.737	6.385	4.681	0.673	Littorinidae	2328.928	13.101	47.727	6.990
Oligochaeta	571.850	6.170	0.637	0.092	Oligochaeta	814.111	4.580	0.143	0.021
Turtoniidae	377.222	4.070	0.477	0.069	Chironomidae	775.943	4.365	0.272	0.040
Chironomidae	279.811	3.019	0.101	0.015	Turtoniidae	496.717	2.794	0.573	0.084
Amphipoda	273.333	2.949	0.989	0.142	Amphipoda	399.333	2.246	5.417	0.793
Lottiidae	159.312	1.719	8.509	1.223	Nematoda	339.778	1.911	0.008	0.001
Nematoda	142.039	1.533	*	*	Copepoda	276.222	1.554	0.001	0.000
Diptera	42.222	0.456	0.141	0.020	Lacunidae	201.241	1.132	1.440	0.211
Isopoda	38.517	0.416	0.242	0.035	Lottiidae	166.305	0.936	11.341	1.661
Veneridae	26.294	0.284	50.642	7.278	Diptera	153.168	0.862	0.168	0.025
Platyhelminthes	13.889	0.150	0.022	0.003	Trochidae	52.461	0.295	1.806	0.265
Paguridae	12.778	0.138	0.244	0.035	Spirorbidae	40.667	0.229	0.131	0.019
Lacunidae	7.780	0.084	0.072	0.010	Isopoda	36.222	0.204	0.278	0.041
Pseudoscorpionida	7.778	0.084	0.098	0.014	Paguridae	27.667	0.156	0.488	0.071
Nemertea	7.406	0.080	0.112	0.016	Idoteidae	20.556	0.116	1.953	0.286
Trochidae	4.449	0.048	0.257	0.037	Rissoidae	12.263	0.069	0.028	0.004
Rissoidae	3.894	0.042	0.003	0.000	Cirratulidae	10.000	0.056	0.015	0.002
Hiatellidae	3.333	0.036	1.759	0.253	Hiatellidae	9.333	0.053	0.107	0.016
Cumacea	2.778	0.030	*	*	Platyhelminthes	9.222	0.052	0.007	0.001
Syllidae	2.222	0.024	0.001	0.000	Buccinidae	8.073	0.045	1.351	0.198
Skeneopsidae	2.222	0.024	0.002	0.000	Syllidae	6.333	0.036	0.006	0.001
Montacutidae	2.222	0.024	0.036	0.005	Nemertea	5.444	0.031	0.064	0.009
Acarj	2.222	0.024	0.001	0.000	Columbellidae	5.382	0.030	0.209	0.031
Nereidae	1.667	0.018	0.006	0.001	Cryptoniscidae	5.111	0.029	0.010	0.001
Nucellidae	0.558	0.006	0.001	0.000	Acarj	4.444	0.025	*	*
Annelida	0.556	0.006	0.004	0.001	Nereidae	2.778	0.016	0.227	0.033
Sigalionidae	0.556	0.006	0.002	0.000	Sigalionidae	2.667	0.015	*	*
Glyceridae	0.556	0.006	0.003	0.000	Veneridae	2.000	0.011	0.151	0.022
Capitellidae	0.556	0.006	0.003	0.000	Skeneopsidae	1.333	0.007	0.005	0.001
Pyramidellidae	0.556	0.006	0.001	0.000	Montacutidae	1.333	0.007	0.007	0.001
Idoteidae	0.556	0.006	0.112	0.016	Cumacea	1.333	0.007	0.001	0.000
Bryozoa	0.556	0.006	*	*	Ostracoda	1.111	0.006	*	*
					Muricidae	0.673	0.004	0.015	0.002
					Actiniidae	0.667	0.004	0.197	0.029
					Pseudoscorpionida	0.667	0.004	*	*
					Balanomorpha	0.667	0.004	0.059	0.009
					Bryozoa	0.667	0.004	0.079	0.012
					Echinoidea	0.667	0.004	0.133	0.019
					Cerithiopsidae	0.563	0.003	0.009	0.001
					Stichaeidae	0.556	0.003	0.193	0.028

Table D-7 . Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered rocky sites, 1989. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

62762C					50983				
	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	8806.938	37.813	1225.233	83.405	Balanidae	7147.125	47.080	343.634	30.969
Mytilidae	3364.276	14.445	77.610	5.283	Archaeobalanidae	2599.087	17.121	125.295	11.292
Oligochaeta	2272.222	9.756	0.588	0.040	Mytilidae	2181.663	14.371	573.158	51.654
Balanidae	2241.430	9.624	118.044	8.036	Littorinidae	1578.177	10.396	47.060	4.241
Chironomidae	1523.333	6.541	0.171	0.012	Isopoda	320.000	2.108	1.883	0.170
Turtoniidae	1267.802	5.443	0.790	0.054	Platyhelminthes	193.333	1.274	0.252	0.023
Sabellidae	900.840	3.868	0.038	0.003	Oligochaeta	163.889	1.080	0.096	0.009
Platyhelminthes	891.111	3.826	0.121	0.008	Lottidae	156.732	1.032	6.494	0.585
Littorinidae	525.307	2.255	8.263	0.562	Amphipoda	145.556	0.959	0.825	0.074
Arachnida	328.889	1.412	0.009	0.001	Sabellidae	130.556	0.860	*	*
Amphipoda	220.000	0.945	0.524	0.036	Sigalionidae	121.111	0.798	0.052	0.005
Lottidae	189.754	0.815	8.902	0.606	Chironomidae	97.222	0.640	0.005	0.000
Isopoda	166.667	0.716	0.256	0.017	Copepoda	96.667	0.637	0.002	0.000
Nematoda	133.333	0.572	0.008	0.001	Paguridae	52.778	0.348	3.351	0.302
Copepoda	62.222	0.267	0.003	0.000	Lacunidae	49.503	0.326	0.119	0.011
Syllidae	54.587	0.234	0.046	0.003	Cryptoniscidae	43.889	0.289	0.012	0.001
Pseudoscorpionida	25.556	0.110	0.013	0.001	Nemertea	31.667	0.209	0.278	0.025
Nemertea	24.444	0.105	0.138	0.009	Nematoda	13.333	0.088	*	*
Lacunidae	24.094	0.103	0.074	0.005	Insecta	11.111	0.073	0.070	0.006
Nereidae	23.383	0.100	0.016	0.001	Acari	9.444	0.062	*	*
Acari	20.000	0.086	*	*	Diptera	7.222	0.048	0.049	0.004
Asteriidae	20.000	0.086	7.412	0.505	Cumacea	6.667	0.044	*	*
Holothuroidea	20.000	0.086	0.448	0.030	Nucellidae	6.140	0.040	6.951	0.626
Lepidochitonidae	17.778	0.076	0.253	0.017	Nereidae	5.000	0.033	0.005	0.000
Cerithiopsidae	15.889	0.068	0.202	0.014	Turtoniidae	3.892	0.026	0.004	0.000
Trochidae	15.222	0.065	0.026	0.002	Sphaerodoridae	1.667	0.011	*	*
Spirorbidae	13.371	0.057	0.018	0.001	Spionidae	1.667	0.011	0.005	0.000
Sigalionidae	13.342	0.057	*	*	Montacutidae	1.667	0.011	*	*
Idoteidae	13.333	0.057	1.144	0.078	Arachnida	1.667	0.011	*	*
Paguridae	13.333	0.057	1.452	0.099	Caecidae	1.111	0.007	*	*
Onchidiidae	11.767	0.051	0.027	0.002	Pseudoscorpionida	1.111	0.007	*	*
Ostracoda	11.111	0.048	*	*					
Cirratulidae	8.900	0.038	0.010	0.001					
Balanomorpha	7.778	0.033	0.033	0.002					
Hiatellidae	6.811	0.029	0.012	0.001					
Pycnogonida	6.667	0.029	0.007	0.000					
Buccinidae	5.650	0.024	2.558	0.174					
Nucellidae	4.539	0.019	8.551	0.582					
Phyllodocidae	4.457	0.019	0.006	0.000					
Mopaliidae	3.333	0.014	4.419	0.301					
Serpulidae	2.227	0.010	*	*					
Anthozoa	2.222	0.010	0.112	0.008					
Insecta	2.222	0.010	0.004	0.000					
Bryozoa	2.222	0.010	1.479	0.101					
Spionidae	1.114	0.005	*	*					
Foraminiferida	1.111	0.005	*	*					

Table D-8 . Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered rocky sites, 1990 1st visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

14.1C

14.1

Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Mytilidae	3865.602	30.624	50.164	6.256	Archaeobalanidae	2382.786	23.636	147.555	52.491
Balanidae	3059.282	24.236	78.543	9.795	Mytilidae	954.412	9.467	38.469	13.685
Archaeobalanidae	1783.526	14.129	574.054	71.593	Balanidae	916.103	9.087	28.045	9.977
Littorinidae	1186.407	9.399	16.776	2.092	Oligochaeta	900.000	8.928	0.920	0.327
Oligochaeta	633.889	5.022	0.122	0.015	Lacunidae	897.255	8.900	0.720	0.256
Turtonidae	427.731	3.389	0.440	0.055	Littorinidae	891.922	8.847	12.380	4.404
Siphonariidae	291.142	2.306	12.714	1.586	Spirorbidae	636.466	6.313	1.325	0.471
Lottiidae	240.837	1.908	7.191	0.897	Amphipoda	466.111	4.624	2.586	0.920
Isopoda	218.333	1.730	0.468	0.058	Copepoda	456.111	4.524	0.040	0.014
Sabellidae	203.889	1.615	0.017	0.002	Trochidae	235.037	2.331	2.786	0.991
Amphipoda	106.667	0.845	0.977	0.122	Lottiidae	205.459	2.038	7.887	2.806
Nematoda	76.667	0.607	0.014	0.002	Nematoda	198.889	1.973	0.005	0.002
Syllidae	72.222	0.572	0.111	0.014	Isopoda	159.444	1.582	0.296	0.105
Chironomidae	66.032	0.523	0.016	0.002	Siphonariidae	132.097	1.310	8.721	3.103
Onchidiidae	62.998	0.499	1.101	0.137	Rissoidae	125.159	1.242	0.165	0.059
Lacunidae	62.891	0.498	0.284	0.035	Nereidae	74.989	0.744	0.236	0.084
Platyhelminthes	37.222	0.295	0.010	0.001	Syllidae	49.807	0.494	0.074	0.026
Rissoidae	35.677	0.283	0.125	0.016	Chironomidae	49.472	0.491	0.005	0.002
Nemertea	27.778	0.220	0.504	0.063	Nemertea	44.444	0.441	0.387	0.138
Cryptoniscidae	21.667	0.172	0.008	0.001	Buccinidae	41.474	0.411	18.286	6.505
Buccinidae	21.032	0.167	11.080	1.382	Tanaidacea	28.333	0.281	0.013	0.005
Copepoda	16.667	0.132	*	*	Turtonidae	25.584	0.254	0.013	0.005
Trochidae	15.305	0.121	0.295	0.037	Sabellidae	19.533	0.194	0.001	0.000
Holothuroidea	12.778	0.101	1.810	0.226	Onchidiidae	17.848	0.177	0.503	0.179
Lepidochitonidae	11.111	0.088	0.893	0.111	Platyhelminthes	13.889	0.138	0.013	0.005
Diptera	8.766	0.069	0.036	0.005	Paguridae	13.889	0.138	1.637	0.582
Collembola	8.536	0.068	*	*	Muricidae	13.382	0.133	0.622	0.221
Acari	6.111	0.048	*	*	Columbellidae	12.347	0.122	0.215	0.077
Cirratulidae	5.556	0.044	0.009	0.001	Sigalionidae	10.596	0.105	0.008	0.003
Spirorbidae	5.556	0.044	0.004	0.000	Diptera	10.472	0.104	0.063	0.022
Capitellidae	4.444	0.035	0.005	0.001	Cryptoniscidae	9.444	0.094	0.003	0.001
Mopaliidae	4.444	0.035	36.328	4.531	Lepidochitonidae	8.333	0.083	0.956	0.340
Nucellidae	3.928	0.031	5.061	0.631	Asteriidae	8.333	0.083	0.049	0.018
Pseudoscorpionida	2.222	0.018	*	*	Cirratulidae	7.400	0.073	0.008	0.003
Bryozoa	2.222	0.018	0.044	0.006	Phlebotomidae	7.278	0.072	0.002	0.001
Cumacea	1.667	0.013	*	*	Phyllodocidae	5.598	0.056	0.067	0.024
Asteriidae	1.667	0.013	0.866	0.108	Mopaliidae	4.444	0.044	0.193	0.069
Actinidae	1.111	0.009	1.616	0.202	Polynoidae	3.906	0.039	0.002	0.001
Nereidae	1.111	0.009	0.002	0.000	Pycnogonida	3.889	0.039	0.015	0.005
Spionidae	1.111	0.009	0.001	0.000	Cumacea	3.342	0.033	*	*
Idoteidae	1.111	0.009	0.012	0.001	Skeneopsidae	3.333	0.033	*	*
Paguridae	1.111	0.009	0.109	0.014	Acari	3.333	0.033	*	*
Coleoptera	1.111	0.009	0.008	0.001	Idoteidae	3.333	0.033	0.464	0.165
Nudibranchia	0.867	0.007	*	*	Bryozoa	3.333	0.033	2.003	0.712
Marginellidae	0.573	0.005	0.004	0.001	Capitellidae	2.792	0.028	0.002	0.001
Cerithiopsidae	0.566	0.004	0.007	0.001	Sipuncula	2.778	0.028	0.192	0.068
Annelida	0.556	0.004	*	*	Nucellidae	1.700	0.017	1.421	0.505
Phyllodocidae	0.556	0.004	*	*	Hiatellidae	1.671	0.017	0.053	0.019
Asteroidea	0.556	0.004	*	*	Actinidae	1.667	0.017	1.133	0.403
					Balanomorpha	1.667	0.017	0.006	0.002
					Cerithiopsidae	1.604	0.016	*	*
					Marginellidae	1.114	0.011	0.007	0.003
					Pyramidellidae	1.114	0.011	0.002	0.001
					Asteroidea	1.111	0.011	*	*
					Cottidae	1.111	0.011	0.044	0.016
					Cerithiidae	0.802	0.008	*	*
					Spionidae	0.578	0.006	*	*
					Calyptraeidae	0.562	0.006	0.088	0.031
					Trichotropididae	0.557	0.006	0.223	0.079
					Serpulidae	0.556	0.006	0.188	0.067
					Ophiuroidea	0.556	0.006	0.003	0.001

Table D-8 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered rocky sites, 1990 1st visit.

14.2C					14.2				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Mytilidae	6818.111	32.214	87.643	29.529	Balanidae	5569.559	41.109	52.663	24.997
Turtoniidae	4481.000	21.172	6.681	2.251	Mytilidae	2386.000	17.611	16.908	8.025
Balanidae	3464.383	16.368	56.776	19.129	Lacunidae	2051.041	15.139	1.830	0.869
Hiatellidae	2282.333	10.783	64.820	21.840	Archaeobalanidae	1277.720	9.431	92.156	43.743
Nematoda	642.556	3.036	0.088	0.030	Littorinidae	574.559	4.241	14.493	6.879
Littorinidae	595.135	2.812	8.705	2.933	Amphipoda	255.333	1.885	1.034	0.491
Archaeobalanidae	451.911	2.135	42.420	14.293	Nematoda	249.667	1.843	0.017	0.008
Syllidae	446.393	2.109	0.643	0.217	Spirorbidae	245.161	1.810	0.175	0.083
Lacunidae	375.731	1.775	0.696	0.235	Lottiidae	222.286	1.641	7.260	3.446
Lottiidae	312.543	1.477	15.173	5.112	Siphonariidae	119.928	0.885	2.661	1.263
Isopoda	203.000	0.959	0.257	0.087	Oligochaeta	105.389	0.778	0.109	0.052
Rissoidae	194.753	0.920	0.247	0.083	Syllidae	71.196	0.526	0.467	0.221
Amphipoda	177.333	0.838	1.358	0.458	Platyhelminthes	54.889	0.405	0.069	0.033
Trochidae	146.172	0.691	0.441	0.148	Nereidae	48.108	0.355	0.216	0.103
Nemertea	99.333	0.469	0.494	0.166	Copepoda	42.000	0.310	*	*
Nereidae	78.333	0.370	1.508	0.508	Idoteidae	39.333	0.290	0.666	0.316
Sipuncula	61.667	0.291	1.048	0.353	Isopoda	32.000	0.236	0.057	0.027
Phyllodocidae	36.667	0.173	0.345	0.116	Cryptoniscidae	29.722	0.219	0.041	0.020
Mopaliidae	36.667	0.173	0.482	0.162	Buccinidae	22.963	0.169	7.508	3.564
Oligochaeta	34.889	0.165	0.007	0.002	Hiatellidae	17.333	0.128	0.022	0.010
Spirorbidae	30.333	0.143	0.020	0.007	Asteridae	16.000	0.118	0.007	0.003
Pycnogonida	29.000	0.137	0.081	0.027	Paguridae	12.833	0.095	0.907	0.431
Idoteidae	19.333	0.091	0.783	0.264	Turtoniidae	11.333	0.084	0.016	0.008
Columbellidae	18.333	0.087	0.057	0.019	Skeneopsidae	10.973	0.081	*	*
Amphinomidae	16.667	0.079	0.002	0.001	Columbellidae	9.585	0.071	0.044	0.021
Chironomidae	15.963	0.075	*	*	Nemertea	9.167	0.068	0.077	0.037
Diptera	15.037	0.071	0.106	0.036	Pycnogonida	7.333	0.054	0.043	0.020
Cirratulidae	8.718	0.041	0.013	0.004	Rissoidae	6.159	0.045	0.017	0.008
Cryptoniscidae	8.667	0.041	0.004	0.001	Chironomidae	5.667	0.042	*	*
Chrysopetalidae	8.333	0.039	0.005	0.002	Bryozoa	4.667	0.034	4.486	2.129
Opisthobranchia	8.333	0.039	0.003	0.001	Muricidae	4.115	0.030	0.265	0.126
Platyhelminthes	6.111	0.029	*	*	Echinoidea	4.000	0.030	0.002	0.001
Polynoidae	5.000	0.024	0.010	0.003	Schizothaeridae	3.500	0.026	1.841	0.874
Pyramidellidae	5.000	0.024	0.007	0.002	Sabellidae	3.343	0.025	*	*
Paguridae	4.667	0.022	0.625	0.210	Lepidochitonidae	3.333	0.025	2.007	0.953
Bryozoa	4.667	0.022	3.938	1.327	Spionidae	2.675	0.020	0.013	0.006
Lepidochitonidae	3.333	0.016	0.818	0.276	Caprellidae	2.675	0.020	0.012	0.006
Copepoda	3.333	0.016	*	*	Pyramidellidae	2.057	0.015	0.003	0.001
Caprellidea	3.333	0.016	*	*	Caprellidea	1.667	0.012	0.007	0.003
Asteroidae	3.333	0.016	0.203	0.068	Cerithiidae	1.371	0.010	0.006	0.003
Actiniidae	2.333	0.011	0.010	0.003	Phyllodocidae	1.337	0.010	0.009	0.004
Acari	2.333	0.011	*	*	Nerillidae	1.337	0.010	*	*
Siphonariidae	1.667	0.008	0.015	0.005	Mopaliidae	1.333	0.010	0.035	0.016
Majidae	1.667	0.008	0.227	0.076	Veneridae	1.333	0.010	2.151	1.021
Cottidae	0.667	0.003	0.038	0.013	Diptera	0.833	0.006	0.009	0.004
					Sigalionidae	0.669	0.005	0.005	0.002
					Trochidae	0.669	0.005	*	*
					Porifera	0.667	0.005	0.025	0.012
					Hydrozoa	0.667	0.005	*	*
					Onchidiidae	0.667	0.005	0.015	0.007
					Ostracoda	0.667	0.005	*	*
					Majidae	0.667	0.005	0.323	0.153
					Asteroidae	0.667	0.005	*	*

Table D-8 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered rocky sites, 1990 1st visit.

62762C					50983				
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Sabellidae	14489.945	25.467	1.659	0.044	Balanidae	7053.900	46.844	536.900	24.381
Mytilidae	12451.578	21.884	470.407	12.552	Mytilidae	3606.111	23.948	1501.989	68.207
Archaeobalanidae	11223.469	19.726	2705.747	72.199	Archaeobalanidae	1261.840	8.380	104.079	4.726
Copepoda	3072.778	5.401	0.015	0.000	Littorinidae	1049.117	6.967	39.286	1.784
Balanidae	2676.275	4.704	330.578	8.821	Copepoda	803.611	5.337	0.091	0.004
Nematoda	2556.111	4.492	0.049	0.001	Oligochaeta	319.944	2.125	0.377	0.017
Oligochaeta	2340.000	4.113	0.299	0.008	Platyhelminthes	271.889	1.806	0.394	0.018
Acari	1966.111	3.456	0.048	0.001	Sigalionidae	175.272	1.164	0.061	0.003
Chironomidae	1321.667	2.323	0.092	0.002	Amphipoda	141.111	0.937	0.797	0.036
Littorinidae	980.031	1.722	15.502	0.414	Lottidae	129.514	0.860	8.750	0.397
Platyhelminthes	611.667	1.075	0.208	0.006	Paguridae	37.778	0.251	1.245	0.057
Isopoda	540.556	0.950	1.463	0.039	Cumacea	35.000	0.232	0.007	0.000
Amphipoda	470.556	0.827	1.013	0.027	Isopoda	22.778	0.151	0.227	0.010
Lottidae	237.963	0.418	10.057	0.268	Sabellidae	22.722	0.151	0.002	0.000
Syllidae	232.308	0.408	0.175	0.005	Chironomidae	20.222	0.134	0.005	0.000
Turtoniidae	225.418	0.396	0.221	0.006	Lacunidae	13.513	0.090	0.062	0.003
Spirorbidae	195.923	0.344	0.393	0.010	Turtoniidae	12.778	0.085	0.011	0.001
Collembola	162.881	0.286	0.021	0.001	Nereidae	12.278	0.082	0.239	0.011
Actinidae	162.222	0.285	12.853	0.343	Nemertea	11.389	0.076	0.016	0.001
Ostracoda	88.889	0.156	*	*	Acari	8.333	0.055	*	*
Holothuroidea	85.556	0.150	9.780	0.261	Tellinidae	5.556	0.037	0.285	0.013
Coleoptera	81.667	0.144	0.017	0.000	Rissoidae	5.055	0.034	0.004	0.000
Sigalionidae	74.925	0.132	0.020	0.001	Idoteidae	4.722	0.031	0.123	0.006
Nemertea	63.333	0.111	0.812	0.022	Syllidae	4.506	0.030	0.051	0.002
Lacunidae	63.029	0.111	0.406	0.011	Ostracoda	4.444	0.030	*	*
Pycnogonida	62.222	0.109	0.040	0.001	Spionidae	4.167	0.028	*	*
Phyllococidae	40.563	0.071	0.141	0.004	Nematoda	3.333	0.022	*	*
Asteriidae	38.333	0.067	25.298	0.675	Nucellidae	3.085	0.020	6.414	0.291
Pseudoscorpionida	37.222	0.065	0.077	0.002	Cryptoniscidae	2.500	0.017	*	*
Onchidiidae	35.286	0.062	0.528	0.014	Insecta	2.056	0.014	*	*
Foraminiferida	33.333	0.059	*	*	Montacutidae	1.667	0.011	0.044	0.002
Hiatellidae	25.764	0.045	0.663	0.018	Bryozoa	1.667	0.011	0.003	0.000
Nereidae	25.163	0.044	0.052	0.001	Veneridae	1.111	0.007	0.533	0.024
Buccinidae	24.417	0.043	11.242	0.300	Trochidae	0.855	0.006	0.003	0.000
Cirratulidae	23.927	0.042	0.021	0.001	Hiatellidae	0.833	0.006	0.086	0.004
Idoteidae	23.333	0.041	1.024	0.027	Stichaeidae	0.833	0.006	0.011	0.000
Nucellidae	22.353	0.039	51.941	1.386	Oweniidae	0.667	0.004	*	*
Trochidae	17.357	0.031	0.095	0.003	Spirorbidae	0.667	0.004	0.003	0.000
Diptera	16.292	0.029	0.088	0.002	Arachnida	0.667	0.004	*	*
Siphonariidae	14.211	0.025	0.697	0.019	Diptera	0.667	0.004	0.005	0.000
Mopaliidae	13.889	0.024	66.589	1.777					
Spionidae	12.801	0.022	*	*					
Paguridae	9.444	0.017	1.723	0.046					
Cryptoniscidae	8.889	0.016	0.002	0.000					
Bryozoa	8.333	0.015	16.383	0.437					
Cumacea	6.111	0.011	0.001	0.000					
Lepidochitonidae	5.000	0.009	0.325	0.009					
Porifera	3.333	0.006	8.261	0.220					
Stichaeidae	3.333	0.006	0.413	0.011					
Cerithiopsidae	3.247	0.006	0.045	0.001					
Hydrozoa	2.222	0.004	0.111	0.003					
Rissoidae	1.895	0.003	0.007	0.000					
Nerillidae	1.667	0.003	*	*					
Veneridae	0.574	0.001	0.013	0.000					
Capitellidae	0.556	0.001	*	*					
Arachnida	0.556	0.001	*	*					
Caprellidea	0.556	0.001	*	*					
Coltidae	0.556	0.001	0.003	0.000					

Table D-9 . Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered rocky sites, 1990 2nd visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

14.1C

14.1

Mytilidae	5342.223	31.319	154.629	14.765
Archaeobalanidae	3549.348	20.808	717.391	68.500
Littorinidae	1887.353	11.065	34.216	3.267
Oligochaeta	1189.444	6.973	0.242	0.023
Balanidae	1020.097	5.980	50.623	4.834
Lacunidae	957.123	5.611	3.434	0.328
Turtoniidae	597.778	3.505	0.672	0.064
Sabellidae	596.111	3.495	0.043	0.004
Amphipoda	407.778	2.391	1.717	0.164
Isopoda	188.889	1.107	0.310	0.030
Trochidae	157.273	0.922	0.315	0.030
Siphonariidae	156.657	0.918	4.708	0.450
Lottiidae	145.245	0.852	11.799	1.127
Spirorbidae	113.333	0.664	0.116	0.011
Syllidae	106.111	0.622	0.168	0.016
Nematoda	85.000	0.498	0.001	0.000
Onchidiidae	77.803	0.456	0.659	0.063
Nemertea	76.667	0.449	0.180	0.017
Chironomidae	70.000	0.410	0.004	0.000
Platyhelminthes	60.000	0.352	0.028	0.003
Collembola	42.222	0.248	0.016	0.001
Diptera	37.778	0.221	0.076	0.007
Holothuroidea	32.222	0.189	3.052	0.291
Buccinidae	29.504	0.173	15.464	1.477
Rissoidae	23.333	0.137	0.082	0.008
Cirratulidae	13.889	0.081	0.015	0.001
Paguridae	13.889	0.081	0.521	0.050
Coleoptera	10.556	0.062	0.003	0.000
Pseudoscorpionida	9.444	0.055	0.012	0.001
Cryptoniscidae	7.222	0.042	0.003	0.000
Mopaliidae	5.556	0.033	35.586	3.398
Lepidochitonidae	5.000	0.029	0.316	0.030
Acari	4.444	0.026	*	*
Idoteidae	4.444	0.026	0.164	0.016
Nucellidae	4.043	0.024	5.543	0.529
Bryozoa	3.889	0.023	2.359	0.225
Asteriidae	3.889	0.023	1.859	0.178
Columbellidae	3.333	0.020	0.151	0.014
Cerithiidae	2.778	0.016	0.049	0.005
Cerithiopsidae	2.778	0.016	0.009	0.001
Hiattellidae	2.222	0.013	0.009	0.001
Copepoda	2.222	0.013	*	*
Nereidae	1.667	0.010	0.004	0.000
Cottidae	1.667	0.010	0.108	0.010
Spionidae	1.111	0.007	0.001	0.000
Pyramidellidae	1.111	0.007	0.002	0.000
Stichaeidae	1.111	0.007	0.043	0.004
Actiniidae	0.556	0.003	0.442	0.042
Muricidae	0.556	0.003	0.144	0.014
Tanaidacea	0.556	0.003	*	*

Amphipoda	4647.778	28.625	2.650	0.753
Archaeobalanidae	3014.460	18.566	183.609	52.206
Mytilidae	2638.885	16.253	75.907	21.583
Lacunidae	1817.438	11.193	5.067	1.441
Littorinidae	887.208	5.464	12.765	3.629
Trochidae	687.168	4.232	1.538	0.437
Balanidae	449.429	2.768	12.745	3.624
Oligochaeta	392.778	2.419	0.196	0.056
Rissoidae	228.889	1.410	0.334	0.095
Siphonariidae	227.374	1.400	7.534	2.142
Lottiidae	192.264	1.184	16.123	4.584
Spirorbidae	141.111	0.869	0.071	0.020
Isopoda	128.889	0.794	0.294	0.084
Nematoda	121.111	0.746	0.003	0.001
Chironomidae	121.111	0.746	0.011	0.003
Syllidae	85.778	0.528	0.179	0.051
Nemertea	47.222	0.291	0.380	0.108
Asteriidae	43.889	0.270	0.033	0.009
Nereidae	41.111	0.253	0.144	0.041
Paguridae	39.444	0.243	2.393	0.680
Holothuroidea	32.778	0.202	1.639	0.466
Buccinidae	31.262	0.193	11.204	3.186
Platyhelminthes	30.000	0.185	0.008	0.002
Diptera	22.778	0.140	0.048	0.014
Turtoniidae	17.226	0.106	0.017	0.005
Coleoptera	15.000	0.092	0.009	0.003
Copepoda	14.444	0.089	*	*
Cryptoniscidae	12.778	0.079	0.029	0.008
Sabellidae	10.556	0.065	*	*
Lepidochitonidae	10.556	0.065	2.159	0.614
Pycnogonida	10.556	0.065	0.007	0.002
Onchidiidae	9.488	0.058	0.096	0.027
Actiniidae	7.778	0.048	2.331	0.663
Phyllodoctidae	6.822	0.042	0.035	0.010
Columbellidae	5.556	0.034	0.157	0.045
Muricidae	5.000	0.031	0.425	0.121
Acari	4.444	0.027	0.001	0.000
Idoteidae	4.444	0.027	0.176	0.050
Bryozoa	3.333	0.021	3.898	1.108
Asteriidae	3.333	0.021	1.334	0.379
Spionidae	2.889	0.018	0.007	0.002
Cirratulidae	2.267	0.014	0.086	0.024
Capitellidae	2.222	0.014	0.002	0.001
Calyptraeidae	2.222	0.014	0.005	0.001
Pyramidellidae	2.222	0.014	0.008	0.002
Mopaliidae	2.222	0.014	1.415	0.402
Hiattellidae	1.667	0.010	0.037	0.011
Cerithiidae	1.111	0.007	0.003	0.001
Cerithiopsidae	1.111	0.007	0.004	0.001
Veneridae	1.111	0.007	2.091	0.595
Tanaidacea	1.111	0.007	*	*
Saccocirridae	0.578	0.004	*	*
Nucellidae	0.577	0.004	1.801	0.512
Polynoidae	0.556	0.003	0.012	0.003
Sigalionidae	0.556	0.003	*	*
Orbinidae	0.556	0.003	0.002	0.000
Balanomorpha	0.556	0.003	*	*
Majidae	0.556	0.003	0.672	0.191
Echinoidea	0.556	0.003	0.001	0.000
Cottidae	0.556	0.003	0.007	0.002

Table D-9 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered rocky sites, 1990 2nd visit.

14.2C					14.2				
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Balanidae	7759.811	38.895	142.348	33.083	Balanidae	5143.455	33.581	80.793	18.960
Mytilidae	7508.889	37.637	220.398	51.224	Lacunidae	3422.700	22.346	7.398	1.736
Archaeobalanidae	1183.522	5.932	37.765	8.777	Archaeobalanidae	3022.656	19.734	239.048	56.098
Lacunidae	792.259	3.971	1.596	0.371	Mytilidae	1370.556	8.948	51.501	12.086
Littorinidae	792.056	3.970	6.410	1.490	Amphipoda	559.445	3.653	1.498	0.351
Lottidae	331.226	1.660	10.896	2.532	Littorinidae	427.081	2.788	8.098	1.900
Amphipoda	292.222	1.465	1.068	0.248	Spirorbidae	301.667	1.970	0.119	0.028
Chironomidae	175.556	0.880	0.044	0.010	Lottidae	297.654	1.943	9.198	2.158
Diptera	174.444	0.874	0.318	0.074	Trochidae	131.682	0.860	0.300	0.070
Oligochaeta	158.889	0.796	0.036	0.008	Nemertea	111.111	0.725	0.676	0.159
Platyhelminthes	138.889	0.696	0.190	0.044	Oligochaeta	98.889	0.646	0.079	0.019
Turtoniidae	133.889	0.671	0.142	0.033	Siphonariidae	86.352	0.564	1.490	0.350
Trochidae	83.728	0.420	0.237	0.055	Diptera	40.000	0.261	0.101	0.024
Cirratulidae	61.435	0.308	0.058	0.014	Platyhelminthes	35.000	0.229	0.046	0.011
Nemertea	56.111	0.281	0.897	0.208	Hiatellidae	30.556	0.199	0.035	0.008
Syllidae	54.121	0.271	0.173	0.040	Chironomidae	29.444	0.192	0.004	0.001
Isopoda	38.889	0.195	0.048	0.011	Cryptoniscidae	28.889	0.189	0.027	0.006
Pseudoscorpionida	36.667	0.184	0.032	0.008	Paguridae	27.222	0.178	0.466	0.109
Rissoidae	32.266	0.162	0.049	0.011	Isopoda	24.444	0.160	0.086	0.020
Nematoda	32.222	0.162	*	*	Nematoda	17.778	0.116	*	*
Hiatellidae	32.222	0.162	0.137	0.032	Buccinidae	15.589	0.102	5.189	1.218
Cryptoniscidae	26.111	0.131	0.012	0.003	Idoteidae	13.333	0.087	0.085	0.020
Caprellidae	15.556	0.078	0.006	0.001	Syllidae	11.111	0.073	0.047	0.011
Nereidae	8.889	0.045	0.138	0.032	Actinidae	8.889	0.058	*	*
Idoteidae	7.222	0.036	0.698	0.162	Sabellidae	8.333	0.054	8.379	1.966
Lepidochitonidae	4.444	0.022	0.631	0.147	Nereidae	8.333	0.054	*	*
Phyllodoctidae	3.333	0.017	0.296	0.069	Turtoniidae	7.778	0.051	0.042	0.010
Asteriidae	2.222	0.011	5.354	1.244	Cerithiopsidae	5.556	0.036	0.030	0.007
Bryozoa	1.667	0.008	0.002	0.001	Columbellidae	3.889	0.025	0.033	0.008
Cerithiidae	1.112	0.006	*	*	Pycnogonida	2.778	0.018	0.002	0.001
Columbellidae	1.112	0.006	*	*	Bryozoa	2.778	0.018	3.608	0.847
Nudibranchia	1.112	0.006	0.026	0.006	Asteriidae	2.778	0.018	4.032	0.946
Nucellidae	1.112	0.006	*	*	Onchidiidae	1.712	0.011	0.004	0.001
Hydrozoa	1.111	0.006	0.138	0.032	Copepoda	1.667	0.011	*	*
Mopaliidae	1.111	0.006	*	*	Coleoptera	1.667	0.011	0.002	0.001
Pycnogonida	1.111	0.006	*	*	Mopaliidae	1.111	0.007	0.362	0.085
Copepoda	1.111	0.006	*	*	Asteriidae	1.111	0.007	0.002	0.001
Tanaidacea	1.111	0.006	0.012	0.003	Opisthobranchia	0.560	0.004	0.001	0.000
Onchidiidae	0.683	0.003	0.003	0.001	Nucellidae	0.557	0.004	0.015	0.004
Anthozoa	0.556	0.003	0.111	0.026	Forifera	0.556	0.004	3.305	0.776
Paguridae	0.556	0.003	*	*	Polychaeta	0.556	0.004	*	*
					Muricidae	0.556	0.004	0.027	0.006
					Pyramidellidae	0.556	0.004	*	*
					Caprellidae	0.556	0.004	*	*

Table D-9 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered rocky sites, 1990 2nd visit.

62762C					50983				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Mytilidae	9468.149	34.745	395.979	16.653	Balanidae	7961.358	54.645	614.713	32.302
Archaeobalanidae	5526.045	20.279	1570.102	66.029	Mytilidae	2986.778	20.501	1106.236	58.130
Oligochaeta	3032.778	11.129	0.904	0.038	Archaeobalanidae	1902.087	13.056	114.788	6.032
Balanidae	2976.732	10.924	297.977	12.531	Littorinidae	1180.266	8.101	36.375	1.911
Sabellidae	1630.513	5.983	0.214	0.009	Platyhelminthes	107.111	0.735	0.113	0.006
Littorinidae	815.867	2.994	16.796	0.706	Lottidae	80.582	0.553	7.195	0.378
Chironomidae	685.293	2.515	0.016	0.001	Diptera	48.000	0.329	0.075	0.004
Nematoda	518.333	1.902	0.005	0.000	Chironomidae	46.556	0.320	0.003	0.000
Amphipoda	488.333	1.792	1.585	0.067	Oligochaeta	37.333	0.256	0.031	0.002
Lacunidae	323.866	1.188	0.868	0.037	Isopoda	28.667	0.197	0.827	0.043
Platyhelminthes	272.778	1.001	0.170	0.007	Nemertea	26.667	0.183	0.415	0.022
Isopoda	255.000	0.936	0.365	0.015	Sigalionidae	26.000	0.178	0.007	0.000
Diptera	246.205	0.903	0.565	0.024	Amphipoda	21.778	0.149	0.110	0.006
Lottidae	156.549	0.574	7.848	0.330	Paguridae	21.333	0.146	1.329	0.070
Copepoda	142.778	0.524	*	*	Copepoda	20.000	0.137	*	*
Holothuroidea	88.889	0.326	6.929	0.291	Cryptoniscidae	18.444	0.127	0.007	0.000
Nemertea	70.556	0.259	0.582	0.024	Sabellidae	8.000	0.055	*	*
Turtoniidae	62.962	0.231	0.077	0.003	Nucellidae	7.237	0.050	17.794	0.935
Pseudoscorpionida	62.222	0.228	0.076	0.003	Lacunidae	6.362	0.044	0.025	0.001
Syllidae	58.889	0.216	0.070	0.003	Spionidae	5.333	0.037	0.013	0.001
Trochidae	51.400	0.189	0.057	0.002	Idoteidae	5.333	0.037	0.581	0.031
Sigalionidae	44.444	0.163	0.018	0.001	Nereidae	4.000	0.027	0.009	0.000
Nereidae	41.126	0.151	0.028	0.001	Cirratulidae	3.333	0.023	0.003	0.000
Onchidiidae	29.245	0.107	0.077	0.003	Cumacea	3.333	0.023	*	*
Siphonariidae	22.417	0.082	0.887	0.037	Turtoniidae	2.667	0.018	*	*
Nucellidae	17.747	0.065	27.914	1.174	Syllidae	2.000	0.014	0.006	0.000
Cirratulidae	13.889	0.051	0.014	0.001	Acari	2.000	0.014	*	*
Lepidochitonidae	12.778	0.047	0.264	0.011	Hiatellidae	1.333	0.009	0.603	0.032
Actiniidae	10.556	0.039	0.569	0.024	Nematoda	0.667	0.005	*	*
Asteriidae	10.556	0.039	4.677	0.197	Phyllococidae	0.667	0.005	*	*
Buccinidae	9.832	0.036	4.608	0.194	Capitellidae	0.667	0.005	*	*
Coleoptera	9.613	0.035	0.003	0.000	Veneridae	0.667	0.005	1.639	0.086
Pycnogonida	9.444	0.035	0.004	0.000	Tanaidacea	0.667	0.005	*	*
Acari	8.889	0.033	0.002	0.000	Bryozoa	0.667	0.005	*	*
Idoteidae	8.889	0.033	0.213	0.009	Stichaeidae	0.667	0.005	0.017	0.001
Spionidae	7.787	0.029	0.021	0.001	Pholididae	0.667	0.005	0.105	0.006
Hiatellidae	7.778	0.029	0.020	0.001					
Collembola	7.778	0.029	0.002	0.000					
Rissoidae	6.739	0.025	0.007	0.000					
Phyllococidae	6.673	0.024	0.070	0.003					
Asteroidea	5.000	0.018	0.499	0.021					
Mopaliidae	3.889	0.014	34.362	1.445					
Paguridae	3.889	0.014	0.235	0.010					
Onchidorididae	3.558	0.013	0.011	0.000					
Cryptoniscidae	3.333	0.012	0.003	0.000					
Bryozoa	3.333	0.012	1.303	0.055					
Cottidae	1.667	0.006	0.207	0.009					
Stichaeidae	1.667	0.006	0.058	0.002					
Polynoidae	1.113	0.004	*	*					
Porifera	1.111	0.004	0.629	0.026					
Spirorbidae	0.556	0.002	*	*					
Cerithiidae	0.556	0.002	*	*					
Echinoidea	0.556	0.002	*	*					

Table D-10. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered rocky sites, 1991. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

14.1C					14.1				
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Mytilidae	7792.172	33.403	193.049	8.105	Archaeobalanidae	3610.773	37.821	312.668	69.986
Archaeobalanidae	4411.688	18.912	2041.066	85.697	Mytilidae	1821.944	19.084	47.871	10.715
Littorinidae	2975.301	12.754	26.717	1.122	Littorinidae	1554.525	16.283	25.244	5.650
Oligochaeta	1836.111	7.871	0.371	0.016	Balanidae	1120.062	11.732	35.346	7.912
Turtonidae	1106.717	4.744	1.399	0.059	Oligochaeta	483.944	5.069	0.306	0.068
Sabellidae	906.543	3.886	0.006	0.000	Chironomidae	196.389	2.057	0.059	0.013
Chironomidae	795.555	3.410	0.175	0.007	Lottidae	195.143	2.044	9.569	2.142
Balanidae	659.979	2.829	23.997	1.008	Siphonariidae	83.621	0.876	5.537	1.239
Lottidae	639.794	2.743	16.420	0.689	Amphipoda	77.778	0.815	0.827	0.185
Isopoda	493.889	2.117	0.469	0.020	Onchidiidae	58.502	0.613	0.626	0.140
Spirorbidae	180.652	0.774	0.221	0.009	Nematoda	56.667	0.594	*	*
Amphipoda	180.556	0.774	3.322	0.139	Turtonidae	56.500	0.592	0.053	0.012
Syllidae	170.576	0.731	0.339	0.014	Platyhelminthes	36.222	0.379	0.057	0.013
Nemertea	165.556	0.710	1.701	0.071	Diptera	32.222	0.338	0.171	0.038
Nematoda	162.778	0.698	*	*	Isopoda	28.333	0.297	0.033	0.007
Siphonariidae	128.107	0.549	7.022	0.295	Syllidae	21.944	0.230	0.066	0.015
Lacunidae	114.983	0.493	0.690	0.029	Nemertea	17.333	0.182	0.418	0.093
Platyhelminthes	92.222	0.395	0.130	0.005	Sabellidae	16.667	0.175	0.007	0.002
Onchidiidae	80.618	0.346	0.781	0.033	Buccinidae	14.457	0.151	4.700	1.052
Diptera	75.556	0.324	0.196	0.008	Cirratulidae	13.333	0.140	0.018	0.004
Trochidae	63.130	0.271	1.354	0.057	Paguridae	8.889	0.093	0.420	0.094
Rissoidae	55.473	0.238	0.152	0.006	Sigalionidae	5.833	0.061	0.003	0.001
Acari	32.778	0.141	0.004	0.000	Idoteidae	5.833	0.061	0.004	0.001
Paguridae	31.111	0.133	0.495	0.021	Spirorbidae	5.000	0.052	0.005	0.001
Buccinidae	28.539	0.122	20.148	0.846	Trochidae	4.722	0.049	0.172	0.039
Pseudoscorpionida	23.889	0.102	0.025	0.001	Acari	4.722	0.049	0.002	0.000
Cerithiopsidae	19.023	0.082	0.101	0.004	Cryptoniscidae	4.444	0.047	0.006	0.001
Asteridae	16.111	0.069	4.676	0.196	Nucellidae	2.083	0.022	1.858	0.416
Copepoda	13.889	0.060	*	*	Actiniidae	1.667	0.017	0.492	0.110
Collembola	10.000	0.043	0.001	0.000	Lacunidae	1.667	0.017	0.014	0.003
Nereidae	9.449	0.041	0.036	0.002	Holothuroidea	1.667	0.017	0.194	0.043
Lepidochitonidae	8.333	0.036	0.148	0.006	Annelida	0.833	0.009	0.010	0.002
Mopaliidae	8.333	0.036	30.243	1.270	Phyllodocidae	0.833	0.009	0.002	0.000
Hiatellidae	7.778	0.033	0.161	0.007	Copepoda	0.833	0.009	*	*
Cirratulidae	6.667	0.029	0.005	0.000	Collembola	0.833	0.009	*	*
Holothuroidea	5.000	0.021	0.337	0.014	Bryozoa	0.833	0.009	0.003	0.001
Cumacea	4.444	0.019	*	*					
Idoteidae	3.889	0.017	0.071	0.003					
Bryozoa	2.222	0.010	0.829	0.035					
Nucellidae	1.134	0.005	0.282	0.012					
Phyllodocidae	1.112	0.005	0.018	0.001					
Spionidae	1.112	0.005	0.001	0.000					
Actiniidae	1.111	0.005	4.528	0.190					
Balanomorpha	1.111	0.005	0.007	0.000					
Pyramidellidae	0.559	0.002	*	*					
Onchidoriidae	0.559	0.002	0.001	0.000					
Porifera	0.556	0.002	0.041	0.002					
Capitellidae	0.556	0.002	*	*					
Ostracoda	0.556	0.002	*	*					

Table D-10 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered rocky sites, 1991.

14.2C					14.2				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Mytilidae	11908.056	44.522	237.219	47.326	Mytilidae	4240.555	33.177	126.583	29.751
Balanidae	9360.858	34.999	125.558	25.049	Balanidae	3659.621	28.632	71.800	16.876
Littorinidae	2008.227	7.508	8.372	1.670	Archaeobalanidae	1469.268	11.495	174.086	40.916
Archaeobalanidae	1137.418	4.253	93.818	18.717	Littorinidae	1068.062	8.356	11.039	2.595
Turtoniidae	434.167	1.623	0.404	0.081	Lacunidae	440.990	3.450	3.214	0.755
Lottidae	287.983	1.077	14.522	2.897	Spirorbidae	336.667	2.634	0.554	0.130
Oligochaeta	194.944	0.729	0.044	0.009	Chironomidae	329.444	2.577	0.125	0.029
Amphipoda	161.500	0.604	1.356	0.271	Oligochaeta	306.111	2.395	0.113	0.027
Spirorbidae	149.113	0.558	0.043	0.009	Lottidae	200.437	1.568	7.200	1.692
Cryptoniscidae	139.667	0.522	0.081	0.016	Amphipoda	99.444	0.778	0.901	0.212
Platyhelminthes	128.222	0.479	0.084	0.017	Turtoniidae	76.667	0.600	0.091	0.021
Diptera	122.278	0.457	0.731	0.146	Sabellidae	70.999	0.555	0.031	0.007
Syllidae	113.249	0.423	0.448	0.089	Acan	70.000	0.548	0.005	0.001
Hiatellidae	102.500	0.383	0.235	0.047	Platyhelminthes	63.889	0.500	0.103	0.024
Lacunidae	98.371	0.368	0.554	0.111	Paguridae	56.111	0.439	0.821	0.193
Nemertea	98.278	0.367	0.945	0.189	Nemertea	50.000	0.391	0.205	0.048
Chironomidae	72.056	0.269	0.013	0.003	Syllidae	45.089	0.353	0.233	0.055
Nematoda	55.944	0.209	*	*	Siphonariidae	39.599	0.310	1.860	0.437
Isopoda	47.611	0.178	0.067	0.013	Isopoda	35.556	0.278	0.030	0.007
Siphonariidae	27.638	0.103	0.323	0.064	Diptera	23.333	0.183	0.041	0.010
Cirratulidae	19.556	0.073	0.010	0.002	Buccinidae	22.217	0.174	9.762	2.295
Trochidae	15.224	0.057	0.058	0.012	Nematoda	20.000	0.156	*	*
Caprellidae	11.667	0.044	0.012	0.002	Trochidae	13.648	0.107	0.459	0.108
Rissoidae	9.865	0.037	0.005	0.001	Cryptoniscidae	10.556	0.083	0.008	0.002
Copepoda	7.500	0.028	*	*	Cerithiopsidae	7.269	0.057	0.043	0.010
Holothuroidea	7.500	0.028	0.087	0.017	Nereidae	5.559	0.043	0.036	0.008
Nereidae	5.027	0.019	0.006	0.001	Idoteidae	3.889	0.030	0.034	0.008
Paguridae	4.167	0.016	0.232	0.046	Bryozoa	2.778	0.022	12.182	2.863
Pseudoscorpionida	3.333	0.012	0.004	0.001	Phyllococidae	2.226	0.017	0.006	0.001
Pycnogonida	3.333	0.012	0.003	0.000	Mopaliidae	1.667	0.013	1.248	0.293
Porifera	2.500	0.009	11.938	2.382	Caprellidae	1.667	0.013	0.019	0.004
Mopaliidae	1.667	0.006	0.998	0.199	Sigalionidae	1.119	0.009	0.001	0.000
Columbellidae	0.913	0.003	*	*	Cirratulidae	1.119	0.009	0.002	0.000
Actinidae	0.833	0.003	0.007	0.001	Porifera	1.111	0.009	2.072	0.487
Cerithiopsidae	0.833	0.003	*	*	Actinidae	1.111	0.009	0.343	0.081
Lepidochitonidae	0.833	0.003	0.019	0.004	Hiatellidae	1.111	0.009	0.006	0.001
Tanaidacea	0.833	0.003	*	*	Polychaeta	0.556	0.004	*	*
Idoteidae	0.833	0.003	*	*	Nucellidae	0.556	0.004	0.111	0.026
Bryozoa	0.833	0.003	3.042	0.607	Copepoda	0.556	0.004	*	*
Asteridae	0.833	0.003	0.003	0.001	Insecta	0.556	0.004	0.001	0.000
					Cottidae	0.556	0.004	0.101	0.024

Table D-10 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered rocky sites, 1991.

62762C

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Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Mytilidae	16628.889	57.534	477.330	19.719	Balanidae	11331.950	58.973	508.119	43.893
Archaeobalanidae	3707.844	12.829	1773.943	73.285	Archaeobalanidae	2875.271	14.963	189.565	16.375
Balanidae	2560.490	8.559	121.035	5.000	Mytilidae	1765.556	9.188	374.637	32.363
Aligochaeta	1959.444	6.779	0.350	0.014	Littorinidae	1621.758	8.440	56.111	4.847
Sabellidae	1073.889	3.716	0.041	0.002	Oligochaeta	400.000	2.082	0.169	0.015
Littorinidae	631.554	2.185	8.842	0.365	Chironomidae	196.577	1.023	0.055	0.005
Lottidae	376.849	1.304	14.615	0.604	Lottidae	141.326	0.735	5.983	0.517
Turtoniidae	365.556	1.265	0.440	0.018	Sabellidae	132.929	0.692	0.010	0.001
Chironomidae	316.111	1.094	0.092	0.004	Lacunidae	119.463	0.622	0.911	0.079
Nematoda	200.556	0.694	0.001	0.000	Platyhelminthes	101.667	0.529	0.148	0.013
Holothuroidea	195.556	0.677	8.156	0.337	Paguridae	67.222	0.350	2.110	0.182
Platyhelminthes	177.778	0.615	0.051	0.002	Amphipoda	65.556	0.341	0.764	0.066
Isopoda	104.444	0.361	0.132	0.005	Cumacea	62.778	0.327	0.014	0.001
Collembola	84.444	0.292	0.015	0.001	Sigalionidae	43.451	0.226	0.052	0.005
Amphipoda	83.889	0.290	0.663	0.027	Spirorbidae	34.446	0.179	0.031	0.003
Lacunidae	83.133	0.288	0.522	0.022	Nematoda	34.444	0.179	*	*
Syllidae	71.111	0.246	0.074	0.003	Diptera	32.312	0.168	0.050	0.004
Diptera	59.444	0.206	0.238	0.010	Isopoda	25.000	0.130	0.203	0.018
Nemertea	56.111	0.194	0.591	0.024	Turtoniidae	23.889	0.124	0.037	0.003
Pseudoscorpionida	35.000	0.121	0.022	0.001	Nemertea	20.556	0.107	0.281	0.024
Actinidae	23.889	0.083	3.239	0.134	Nereidae	16.029	0.083	0.015	0.001
Lepidochitonidae	17.222	0.060	0.759	0.031	Syllidae	14.689	0.076	0.016	0.001
Cirratulidae	15.000	0.052	0.015	0.001	Rissoidae	11.940	0.062	0.020	0.002
Acari	12.778	0.044	0.003	0.000	Montacutidae	11.667	0.061	0.036	0.003
Idoteidae	12.222	0.042	0.068	0.003	Spionidae	10.902	0.057	0.042	0.004
Cryptoniscidae	6.111	0.021	0.004	0.000	Acari	10.556	0.055	0.004	0.000
Onchidiidae	5.605	0.019	0.040	0.002	Nucellidae	8.522	0.044	17.547	1.516
Sigalionidae	4.444	0.015	0.001	0.000	Idoteidae	6.667	0.035	0.075	0.006
Asteriidae	4.444	0.015	0.261	0.011	Cryptoniscidae	4.444	0.023	0.003	0.000
Nereidae	3.889	0.013	0.016	0.001	Phyllocididae	4.329	0.023	0.022	0.002
Siphonariidae	3.354	0.012	0.350	0.014	Copepoda	3.889	0.020	*	*
Buccinidae	3.339	0.012	0.026	0.001	Cirratulidae	3.544	0.018	0.037	0.003
Phyllocididae	3.333	0.012	0.028	0.001	Bryozoa	2.222	0.012	0.179	0.016
Mopaliidae	2.778	0.010	5.261	0.217	Sphaerodoridae	1.896	0.010	*	*
Copepoda	2.222	0.008	*	*	Opheliidae	1.896	0.010	0.011	0.001
Bryozoa	1.667	0.006	0.173	0.007	Columbellidae	1.123	0.006	0.046	0.004
Nucellidae	1.124	0.004	2.590	0.107	Porifera	1.111	0.006	0.309	0.027
Trochidae	1.117	0.004	0.013	0.001	Pseudoscorpionida	1.111	0.006	*	*
Hiattellidae	1.111	0.004	0.012	0.000	Trochidae	0.696	0.004	0.007	0.001
Cerithiidae	0.583	0.002	*	*	Foraminiferida	0.556	0.003	*	*
Rissoidae	0.562	0.002	*	*	Hydrozoa	0.556	0.003	*	*
Porifera	0.556	0.002	0.593	0.025	Capitellidae	0.556	0.003	*	*
Hydrozoa	0.556	0.002	*	*	Hiattellidae	0.556	0.003	0.003	0.000
Polychaeta	0.556	0.002	*	*					
Orbiniidae	0.556	0.002	*	*					
Spionidae	0.556	0.002	*	*					
Spirorbidae	0.556	0.002	*	*					
Tanaidacea	0.556	0.002	*	*					

Table D-11. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1989. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

Control Site Not Sampled				30196					
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
					Syllidae	3892.594	19.345	0.520	0.183
					Oligochaeta	2445.556	12.154	0.997	0.351
					Turtoniidae	2106.495	10.469	2.183	0.769
					Sabellidae	1291.491	6.418	0.813	0.286
					Nematoda	1251.111	6.218	0.058	0.020
					Annelida	1114.444	5.539	1.042	0.367
					Lacunidae	1087.923	5.407	1.502	0.529
					Littorinidae	1040.668	5.172	35.834	12.624
					Archaeobalanidae	759.203	3.773	184.046	64.837
					Skeneopsidae	576.587	2.865	0.135	0.048
					Trochidae	516.200	2.565	1.175	0.414
					Cirratulidae	496.377	2.467	0.267	0.094
					Sigalionidae	442.378	2.199	0.106	0.037
					Nereidae	299.594	1.489	1.689	0.595
					Ostracoda	272.222	1.353	0.016	0.005
					Orbiniidae	269.002	1.337	0.846	0.298
					Rissoidae	258.523	1.285	0.468	0.165
					Siphonariidae	241.621	1.201	1.517	0.535
					Amphipoda	221.111	1.099	0.362	0.128
					Platyhelminthes	218.889	1.088	0.169	0.060
					Nemertea	218.889	1.088	1.262	0.445
					Porifera	216.667	1.077	0.622	0.219
					Copepoda	171.111	0.850	*	*
					Mytilidae	133.128	0.662	19.085	6.723
					Isopoda	107.778	0.536	0.278	0.098
					Foraminiferida	77.778	0.387	*	*
					Arachnida	54.444	0.271	*	*
					Anthozoa	45.556	0.226	10.852	3.823
					Holothuroidea	34.444	0.171	4.240	1.494
					Lottiidae	33.162	0.165	0.231	0.081
					Phyllodoceidae	32.232	0.160	0.186	0.066
					Balanidae	30.797	0.153	4.866	1.714
					Nerillidae	24.450	0.122	*	*
					Saccocirridae	20.004	0.099	*	*
					Capitellidae	13.497	0.067	0.026	0.009
					Sphaerodoridae	12.226	0.061	*	*
					Hiatellidae	11.487	0.057	0.012	0.004
					Acari	10.000	0.050	*	*
					Insecta	10.000	0.050	0.056	0.020
					Onchidiidae	9.664	0.048	0.149	0.052
					Spionidae	8.941	0.044	0.050	0.018
					Prapulida	7.778	0.039	0.017	0.006
					Asteriidae	6.667	0.033	1.432	0.505
					Lepidochitonidae	5.556	0.028	0.182	0.064
					Idoteidae	5.556	0.028	0.862	0.304
					Lumbrineridae	3.334	0.017	0.019	0.007
					Balanomorpha	3.333	0.017	0.012	0.004
					Terebellidae	2.222	0.011	0.010	0.004
					Buccinidae	1.194	0.006	0.098	0.034
					Nudibranchia	1.194	0.006	0.006	0.002
					Spirorbidae	1.112	0.006	0.262	0.092
					Mopaliidae	1.111	0.006	5.299	1.867
					Cumacea	1.111	0.006	*	*
					Sipuncula	1.111	0.006	*	*
					Bryozoa	1.111	0.006	*	*
					Asteroidea	1.111	0.006	*	*

Table D-11 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1989.

Control Site Not Sampled				31248			
Taxa	Abundance (no. m ⁻²)	Abundance (%)	Biomass (g m ⁻²)	Abundance (no. m ⁻²)	Abundance (%)	Biomass (g m ⁻²)	Biomass (%)
Archaeobalanidae	10896.950			77.119		227.768	69.444
Balanidae	2001.939			14.168		45.265	13.801
Littorinidae	739.736			5.235		31.791	9.693
Lottiidae	361.269			2.557		12.770	3.893
Mytilidae	30.000			0.212		4.411	1.345
Nematoda	24.444			0.173		0.006	0.002
Amphipoda	13.333			0.094		0.029	0.009
Copepoda	7.778			0.055		*	*
Paguridae	7.778			0.055		0.781	0.238
Insecta	7.778			0.055		0.041	0.013
Cirratulidae	7.619			0.054		*	*
Siphonariidae	6.667			0.047		0.301	0.092
Nemertea	5.556			0.039		0.190	0.058
Ostracoda	3.333			0.024		*	*
Syllidae	2.381			0.017		0.003	0.001
Onchidiidae	2.328			0.016		0.031	0.009
Cryptoniscidae	2.222			0.016		0.004	0.001
Foraminiferida	1.111			0.008		*	*
Platyhelminthes	1.111			0.008		*	*
Polychaeta	1.111			0.008		*	*
Buccinidae	1.111			0.008		1.253	0.382
Turtonidae	1.111			0.008		0.007	0.002
Pseudoscorpionida	1.111			0.008		*	*
Chironomidae	1.111			0.008		*	*
Asteriidae	1.111			0.008		3.337	1.017

Table D-11 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1989.

99826C					33141				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	8996.667	44.161	2.971	0.332	Copepoda	29166.666	24.936	0.567	0.067
Archaeobalanidae	6829.791	33.525	422.815	47.292	Mytilidae	21195.225	18.121	437.703	51.558
Amphipoda	2074.445	10.183	2.207	0.247	Turtoniidae	17921.404	15.322	4.310	0.508
Nematoda	847.778	4.161	0.049	0.005	Nematoda	15730.000	13.448	0.335	0.039
Littorinidae	709.778	3.484	53.507	7.103	Chironomidae	7036.667	6.016	1.150	0.135
Mytilidae	165.556	0.813	383.297	42.872	Oligochaeta	4800.000	4.104	0.720	0.085
Lottiidae	139.111	0.683	11.999	1.342	Acari	3706.667	3.169	0.047	0.006
Copepoda	120.000	0.589			Amphipoda	3673.333	3.140	5.670	0.668
Platyhelminthes	107.778	0.529	0.154	0.017	Ostracoda	2300.000	1.966	0.007	0.001
Insecta	96.667	0.475	0.871	0.097	Littorinidae	2120.447	1.813	20.819	2.452
Chironomidae	64.226	0.315		*	Cumacea	1940.000	1.659	0.007	0.001
Balanidae	58.120	0.285	4.679	0.523	Foraminiferida	1820.000	1.556		*
Acari	51.111	0.251		*	Balanidae	1374.870	1.175	342.418	40.334
Arachnida	30.000	0.147		*	Platyhelminthes	1073.333	0.918	0.003	0.000
Isopoda	23.333	0.115	0.013	0.001	Lottiidae	593.517	0.507	6.095	0.718
Paguridae	16.667	0.082	1.197	0.134	Trochidae	517.210	0.442	0.017	0.002
Turtoniidae	11.111	0.055		*	Syllidae	315.083	0.269	0.571	0.067
Collembola	6.886	0.034		*	Cirratulidae	302.297	0.258	0.686	0.081
Pseudoscorpionida	6.667	0.033	0.003	0.000	Phyllococidae	298.070	0.255	0.711	0.084
Foraminiferida	5.556	0.027		*	Lacunidae	239.493	0.205	0.269	0.032
Sabellidae	3.333	0.016		*	Nemertea	236.667	0.202	1.027	0.121
Nemertea	2.222	0.011	0.020	0.002	Nereidae	100.360	0.086	0.667	0.079
Cirratulidae	2.222	0.011		*	Sabellidae	90.350	0.077	0.007	0.001
Annelida	1.111	0.005	0.002	0.000	Rissoidae	89.000	0.076	0.034	0.004
Syllidae	1.111	0.005	0.007	0.001	Archaeobalanidae	78.460	0.067	6.829	0.804
Nereidae	1.111	0.005	0.258	0.029	Orbiniidae	50.203	0.043	0.169	0.020
					Serpulidae	26.763	0.023	*	*
					Siphonariidae	23.593	0.020	0.350	0.041
					Hiatellidae	23.363	0.020	*	*
					Arachnida	23.333	0.020	*	*
					Arenicolidae	16.780	0.014	2.310	0.272
					Sigalionidae	16.727	0.014	*	*
					Anthozoa	10.000	0.009	14.853	1.750
					Insecta	10.000	0.009	0.050	0.006
					Spionidae	6.690	0.006	0.003	0.000
					Veneridae	6.673	0.006	0.017	0.002
					Lepidochitonidae	6.667	0.006	0.200	0.024
					Paguridae	6.667	0.006	0.300	0.035
					Asferiidae	6.667	0.006	0.003	0.000
					Skeneopsidae	3.370	0.003	*	*
					Onchidiidae	3.370	0.003	0.030	0.004
					Capitellidae	3.347	0.003	*	*
					Idoteidae	3.333	0.003	*	*

Table D-12. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1990 1st visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

Σ0196<				Σ019≥					
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Littorinidae	2470.244	21.613	44.012	5.216	Oligochaeta	3368.222	22.305	5.476	1.249
Archaeobalanidae	1852.612	16.209	457.132	54.172	Littorinidae	2809.044	17.278	106.419	24.280
Balanidae	903.609	7.906	226.528	26.844	Cirratulidae	1823.599	12.076	1.810	0.413
Sabellidae	848.544	7.424	0.568	0.067	Turtonidae	1565.706	10.368	2.280	0.520
Oligochaeta	663.222	5.803	1.226	0.145	Sabellidae	958.815	6.349	0.713	0.163
Idoteidae	446.333	3.905	5.607	0.664	Rissoidae	581.933	3.854	1.476	0.337
Turtoniidae	398.754	3.489	0.354	0.042	Siphonariidae	472.099	3.126	14.592	3.329
Copepoda	358.556	3.137	0.046	0.005	Nereidae	308.255	2.041	9.089	2.074
Mytilidae	344.690	3.016	7.012	0.831	Nematoda	299.556	1.984	0.030	0.007
Cirratulidae	339.302	2.969	5.360	0.635	Balanidae	287.014	1.901	75.157	17.147
Amphipoda	334.556	2.927	1.850	0.219	Spirorbidae	275.049	1.821	0.349	0.080
Nereidae	300.506	2.629	3.740	0.443	Syllidae	264.638	1.752	0.286	0.065
Isopoda	281.778	2.465	1.859	0.220	Orbiniidae	242.283	1.604	0.891	0.203
Nematoda	268.556	2.350	0.016	0.002	Archaeobalanidae	229.320	1.519	102.892	23.476
Siphonariidae	250.396	2.191	7.600	0.901	Trochidae	227.491	1.506	2.996	0.683
Syllidae	204.062	1.785	1.343	0.159	Holothuroidea	227.222	1.505	39.119	8.925
Lottiidae	197.203	1.725	15.092	1.788	Actiniidae	181.667	1.203	15.871	3.621
Spirorbidae	133.918	1.172	0.115	0.014	Sigalionidae	140.001	0.927	0.070	0.016
Platyhelminthes	116.889	1.023	0.304	0.036	Mytilidae	106.248	0.704	9.975	2.276
Trochidae	98.407	0.861	2.703	0.320	Skeneopsidae	101.928	0.675	0.044	0.010
Orbiniidae	91.237	0.798	0.514	0.061	Amphipoda	98.889	0.655	0.852	0.194
Actiniidae	72.667	0.636	12.161	1.441	Platyhelminthes	83.111	0.550	0.129	0.029
Anthozoa	60.556	0.530	8.997	1.066	Onchidiidae	70.732	0.468	1.372	0.313
Holothuroidea	59.556	0.521	17.174	2.035	Idoteidae	67.778	0.449	1.979	0.451
Nemertea	48.778	0.427	0.994	0.118	Nemertea	62.333	0.413	0.974	0.222
Rissoidae	34.231	0.300	0.071	0.008	Isopoda	61.667	0.408	0.653	0.149
Sipuncula	32.667	0.286	1.413	0.167	Lottiidae	51.079	0.338	8.025	1.831
Onchidiidae	31.287	0.274	0.284	0.034	Lacunidae	45.284	0.300	0.329	0.075
Chironomidae	31.111	0.272	0.011	0.001	Sipuncula	36.667	0.243	1.124	0.257
Sigalionidae	26.274	0.230	0.007	0.001	Lepidochitonidae	32.222	0.213	1.544	0.352
Diptera	22.889	0.200	0.035	0.004	Sphaerodoridae	26.772	0.177	0.023	0.005
Skeneopsidae	13.446	0.118	0.007	0.001	Anthozoa	25.000	0.166	1.207	0.275
Lacunidae	11.904	0.104	0.089	0.011	Buccinidae	24.877	0.165	11.796	2.691
Spionidae	9.359	0.082	0.774	0.092	Annelida	20.556	0.136	0.016	0.004
Asteriidae	7.444	0.065	6.300	0.747	Spionidae	18.378	0.122	0.045	0.010
Paguridae	7.333	0.064	1.385	0.164	Tellinidae	16.268	0.108	3.947	0.901
Acari	6.778	0.059	*	*	Asteriidae	15.000	0.099	4.681	1.068
Opheliidae	6.000	0.052	0.067	0.008	Chironomidae	13.333	0.088	0.009	0.002
Saccocirridae	6.000	0.052	*	*	Capitellidae	12.839	0.085	0.015	0.003
Scalibregmidae	5.333	0.047	0.033	0.004	Phyllodocidae	11.692	0.077	0.080	0.018
Phyllodocidae	3.788	0.033	0.051	0.006	Cumacea	11.222	0.074	0.020	0.004
Buccinidae	3.545	0.031	4.781	0.567	Lumbrineridae	6.121	0.041	0.019	0.004
Nucellidae	3.342	0.029	1.248	0.148	Paguridae	6.111	0.040	2.863	0.585
Capitellidae	3.000	0.026	0.007	0.001	Turbinidae	3.639	0.024	0.007	0.002
Lepidochitonidae	2.667	0.023	0.179	0.021	Diptera	1.778	0.012	0.020	0.005
Collembola	2.667	0.023	0.004	0.000	Copepoda	1.667	0.011	*	*
Sphaerodoridae	2.335	0.020	*	*	Nucellidae	1.116	0.007	1.130	0.258
Lumbrineridae	2.007	0.018	0.418	0.050	Pseudoscorpionida	0.667	0.004	0.001	0.000
Stichaeidae	2.000	0.017	4.258	0.505	Polynoidae	0.557	0.004	*	*
Pycnogonida	1.778	0.016	0.007	0.001	Arenicolidae	0.556	0.004	0.002	0.000
Balanomorpha	1.333	0.012	0.015	0.002	Mopaliidae	0.556	0.004	6.190	1.412
Bryozoa	1.333	0.012	0.001	0.000	Hiattellidae	0.556	0.004	0.008	0.002
Insecta	1.111	0.010	0.013	0.002	Acari	0.556	0.004	0.001	0.000
Cumacea	0.667	0.006	*	*	Insecta	0.556	0.004	0.002	0.000
Cyclopteridae	0.667	0.006	0.096	0.011	Collembola	0.556	0.004	*	*

Table D-12 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1990 1st visit.

31252C					31252				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	8377.407	68.379	798.487	77.149	Archaeobalanidae	14603.070	62.413	951.828	75.057
Littorinidae	1818.296	14.842	71.051	6.865	Littorinidae	3437.966	14.694	44.044	3.473
Lottiidae	657.462	5.366	20.667	1.997	Mytilidae	2633.889	11.257	112.011	8.833
Balanidae	420.924	3.436	63.930	6.177	Balanidae	954.884	4.081	25.048	1.975
Mytilidae	417.222	3.406	75.569	7.301	Mytilidae	866.928	3.705	87.193	6.876
Platyhelminthes	141.667	1.156	0.254	0.025	Oligochaeta	283.889	1.213	0.196	0.015
Oligochaeta	120.000	0.979	0.111	0.011	Syllidae	67.781	0.290	0.166	0.013
Cirratulidae	81.356	0.664	0.092	0.009	Chironomidae	66.639	0.285	0.018	0.001
Chironomidae	56.667	0.463	0.013	0.001	Turtonidae	65.556	0.280	0.077	0.006
Nematoda	32.778	0.268	*	*	Orbinidae	60.359	0.258	0.114	0.009
Collembola	25.000	0.204	0.015	0.001	Sabellidae	57.791	0.247	0.015	0.001
Syllidae	19.608	0.160	0.046	0.004	Trochidae	32.345	0.138	0.291	0.023
Nemertea	12.778	0.104	0.588	0.057	Nemertea	31.111	0.133	0.256	0.020
Amphipoda	8.889	0.073	0.081	0.008	Platyhelminthes	30.000	0.128	0.015	0.001
Nucellidae	8.364	0.068	3.261	0.315	Sipuncula	28.889	0.123	0.915	0.072
Sabellidae	7.288	0.059	0.001	0.000	Sigalionidae	27.322	0.117	0.006	0.000
Trochidae	7.231	0.059	0.215	0.021	Cirratulidae	20.556	0.088	0.008	0.001
Sigalionidae	6.732	0.055	*	*	Amphipoda	16.111	0.069	0.135	0.011
Phyllococidae	5.556	0.045	0.054	0.005	Nematoda	15.556	0.066	*	*
Turtonidae	5.000	0.041	0.004	0.000	Nucellidae	15.032	0.064	13.675	1.078
Pseudoscorpionida	3.889	0.032	0.003	0.000	Veneridae	15.000	0.064	31.653	2.496
Diptera	3.333	0.027	0.031	0.003	Phyllococidae	14.504	0.062	0.076	0.006
Siphonariidae	2.234	0.018	0.161	0.016	Rissoidae	13.378	0.057	0.026	0.002
Onchidiidae	2.227	0.018	0.019	0.002	Isopoda	7.222	0.031	0.004	0.000
Rissoidae	1.682	0.014	0.007	0.001	Diptera	4.472	0.019	0.004	0.000
Cryptoniscidae	1.667	0.014	0.001	0.000	Copepoda	3.889	0.017	0.002	0.000
Nereidae	1.127	0.009	*	*	Asteriidae	3.889	0.017	0.001	0.000
Lacunidae	1.112	0.009	0.003	0.000	Terebellidae	3.353	0.014	0.036	0.003
Acari	1.111	0.009	*	*	Onchidiidae	3.338	0.014	0.027	0.002
Paguridae	1.111	0.009	0.028	0.003	Pseudoscorpionida	2.778	0.012	*	*
Buccinidae	0.557	0.005	0.294	0.028	Siphonariidae	2.227	0.010	0.038	0.003
Spionidae	0.556	0.005	*	*	Cumacea	1.667	0.007	*	*
Isopoda	0.556	0.005	0.003	0.000	Paguridae	1.667	0.007	0.251	0.020
					Insecta	1.111	0.005	*	*
					Caecidae	0.557	0.002	*	*
					Nereidae	0.556	0.002	0.004	0.000
					Arachnida	0.556	0.002	*	*
					Acari	0.556	0.002	*	*
					Cryptoniscidae	0.556	0.002	*	*
					Stichaeidae	0.556	0.002	0.006	0.000

Table D-12 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1990 1st visit.

31252C					31248				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	8377.407	68.379	798.487	77.149	Archaeobalanidae	6654.111	72.515	514.051	75.042
Littorinidae	1818.296	14.842	71.051	6.865	Littorinidae	1208.374	13.169	51.158	7.468
Lottiidae	657.462	5.366	20.667	1.997	Balanidae	452.555	4.932	68.237	9.961
Balanidae	420.924	3.436	63.930	6.177	Lottiidae	341.817	3.725	17.787	2.597
Mytilidae	417.222	3.406	75.569	7.301	Mytilidae	230.778	2.515	27.291	3.984
Platyhelminthes	141.667	1.156	0.254	0.025	Oligochaeta	81.778	0.891	0.065	0.010
Oligochaeta	120.000	0.979	0.111	0.011	Chironomidae	63.556	0.693	0.020	0.003
Cirratulidae	81.356	0.664	0.092	0.009	Siphonariidae	18.777	0.205	0.716	0.105
Chironomidae	56.667	0.463	0.013	0.001	Sigalionidae	16.667	0.182	0.009	0.001
Nematoda	32.778	0.268	*	*	Platyhelminthes	12.556	0.137	0.019	0.003
Collembola	25.000	0.204	0.015	0.001	Nematoda	12.556	0.137	0.002	0.000
Syllidae	19.608	0.160	0.046	0.004	Cirratulidae	9.222	0.100	0.013	0.002
Nemertea	12.778	0.104	0.588	0.057	Syllidae	8.667	0.094	0.023	0.003
Amphipoda	8.889	0.073	0.081	0.008	Paguridae	8.667	0.094	0.396	0.058
Nucellidae	8.364	0.068	3.261	0.315	Nemertea	8.000	0.087	0.043	0.006
Sabellidae	7.288	0.059	0.001	0.000	Amphipoda	8.000	0.087	0.060	0.009
Trochidae	7.231	0.059	0.215	0.021	Turtoniidae	7.778	0.085	0.008	0.001
Sigalionidae	6.732	0.055	*	*	Nucellidae	6.800	0.074	4.644	0.678
Phyllodocidae	5.556	0.045	0.054	0.005	Phyllodocidae	6.000	0.065	0.046	0.007
Turtoniidae	5.000	0.041	0.004	0.000	Onchidiidae	2.667	0.029	0.057	0.008
Pseudoscorpionida	3.889	0.032	0.003	0.000	Cumacea	2.667	0.029	0.002	0.000
Diptera	3.333	0.027	0.031	0.003	Trochidae	2.004	0.022	0.126	0.018
Siphonariidae	2.234	0.018	0.161	0.016	Isopoda	2.000	0.022	0.001	0.000
Onchidiidae	2.227	0.018	0.019	0.002	Holothuroidae	2.000	0.022	0.155	0.023
Rissoidae	1.682	0.014	0.007	0.001	Sabellidae	1.889	0.021	*	*
Cryptoniscidae	1.667	0.014	0.001	0.000	Rissoidae	1.339	0.015	0.004	0.001
Nereidae	1.127	0.009	*	*	Diptera	1.333	0.015	0.004	0.001
Lacunidae	1.112	0.009	0.003	0.000	Nereidae	1.222	0.013	0.002	0.000
Acari	1.111	0.009	*	*	Lacunidae	0.668	0.007	0.002	0.000
Paguridae	1.111	0.009	0.028	0.003	Buccinidae	0.668	0.007	0.073	0.011
Buccinidae	0.557	0.005	0.294	0.028	Polychaeta	0.556	0.006	*	*
Spionidae	0.556	0.005	*	*	Insecta	0.556	0.006	0.001	0.000
Isopoda	0.556	0.005	0.003	0.000					

Table D-12 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1990 1st visit.

99826C					33141				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	6227.777	37.835	8.722	0.118	Oligochaeta	1528.667	16.610	0.439	0.059
Archaeobalanidae	5075.598	30.835	539.607	7.299	Cirratulidae	1354.818	14.721	1.607	0.215
Mytilidae	1629.157	9.898	6699.667	90.620	Nematoda	1139.406	12.380	0.013	0.002
Lottidae	1269.426	7.712	34.494	0.467	Littorinidae	1134.519	12.327	91.383	12.210
Littorinidae	948.026	5.759	70.648	0.956	Mytilidae	1009.222	10.966	191.311	25.562
Nemertea	254.444	1.546	1.233	0.017	Balanidae	785.978	8.540	147.254	19.676
Cirratulidae	190.327	1.156	0.363	0.005	Syllidae	334.107	3.630	0.199	0.027
Balanidae	153.289	0.931	23.928	0.324	Orbiniidae	271.096	2.946	0.378	0.051
Turtoniidae	150.274	0.913	0.250	0.003	Saccocirridae	254.540	2.766	0.172	0.023
Isopoda	127.778	0.776	2.957	0.040	Lottidae	230.143	2.501	6.044	0.808
Nematoda	90.556	0.550	0.005	0.000	Nemertea	215.104	2.337	2.136	0.285
Phyllodocidae	80.689	0.490	0.510	0.007	Archaeobalanidae	137.942	1.499	299.871	40.068
Paguridae	71.111	0.432	3.067	0.041	Sigalionidae	132.840	1.443	0.014	0.002
Platyhelminthes	44.444	0.270	0.078	0.001	Phyllodocidae	130.049	1.413	0.421	0.056
Capitellidae	28.299	0.172	0.044	0.001	Turtoniidae	114.694	1.246	0.225	0.030
Amphipoda	17.778	0.108	0.124	0.002	Platyhelminthes	107.000	1.163	0.143	0.019
Onchidiidae	16.117	0.098	0.052	0.001	Collembola	62.455	0.679	0.013	0.002
Spionidae	9.554	0.058	0.003	0.000	Onchidiidae	58.444	0.635	0.569	0.076
Tellinidae	9.457	0.057	0.909	0.012	Chironomidae	39.694	0.431	0.003	0.000
Acari	9.444	0.057	*	*	Sabellidae	26.242	0.285	0.002	0.000
Orbiniidae	6.180	0.038	0.021	0.000	Terebellidae	24.887	0.270	0.029	0.004
Echiuridae	5.000	0.030	0.042	0.001	Coleoptera	19.126	0.208	*	*
Opheliidae	4.921	0.030	0.003	0.000	Nereidae	13.310	0.145	*	*
Syllidae	4.496	0.027	*	*	Pseudoscorpionida	9.000	0.098	0.019	0.003
Pseudoscorpionida	4.444	0.027	0.003	0.000	Copepoda	8.447	0.092	*	*
Sigalionidae	4.373	0.027	0.004	0.000	Capitellidae	7.780	0.085	0.009	0.001
Copepoda	3.889	0.024	*	*	Acari	6.961	0.076	*	*
Pycnogonida	3.333	0.020	*	*	Amphipoda	6.739	0.073	0.034	0.005
Cumacea	3.333	0.020	*	*	Siphonariidae	6.667	0.072	0.314	0.042
Diptera	3.333	0.020	0.063	0.001	Russoidae	5.333	0.058	0.013	0.002
Stichaeidae	3.333	0.020	3.053	0.041	Annelida	5.109	0.056	0.006	0.001
Nereidae	2.252	0.014	*	*	Isopoda	4.000	0.043	0.004	0.001
Nucellidae	1.675	0.010	3.246	0.044	Diptera	3.619	0.039	0.012	0.002
Chironomidae	1.667	0.010	*	*	Opheliidae	3.553	0.039	0.117	0.016
Sphaerodoridae	1.118	0.007	0.002	0.000	Sipuncula	3.553	0.039	0.238	0.032
Sabellidae	1.114	0.007	*	*	Insecta	2.222	0.024	*	*
Rissoidae	0.598	0.004	0.003	0.000	Asteriidae	2.000	0.022	0.532	0.071
Polynoidae	0.563	0.003	*	*	Mopaliidae	1.333	0.014	4.857	0.649
Arenicolidae	0.563	0.003	0.001	0.000	Protodrilidae	1.111	0.012	*	*
Trochidae	0.556	0.003	0.020	0.000	Polynoidae	0.667	0.007	0.001	0.000
					Cumacea	0.556	0.006	*	*
					Paguridae	0.556	0.006	0.028	0.004

Table D-13. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1990 2nd visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

30196C					30196				
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Archaeobalanidae	2481.575	15.294	142.957	43.821	Oligochaeta	5580.000	15.903	4.543	1.070
Littorinidae	2061.329	12.704	33.465	10.258	Sabellidae	5044.474	14.376	2.989	0.704
Oligochaeta	1696.667	10.456	1.375	0.421	Cirratulidae	4714.097	13.435	6.286	1.480
Nematoda	1298.333	8.002	0.091	0.028	Nematoda	3313.333	9.443	0.147	0.035
Trochidae	1115.579	6.875	1.332	0.408	Turtoniidae	3017.495	8.600	2.607	0.614
Balanidae	844.535	5.205	100.841	30.911	Littorinidae	1932.410	5.507	34.864	8.209
Amphipoda	840.556	5.180	1.828	0.560	Nereidae	1344.559	3.832	4.920	1.158
Turtoniidae	824.783	5.063	0.774	0.237	Lacunidae	1105.932	3.152	0.682	0.160
Lacunidae	713.423	4.397	0.695	0.213	Archaeobalanidae	1029.145	2.933	193.391	45.534
Sabellidae	693.031	4.271	0.301	0.092	Rissoidae	940.650	2.681	1.458	0.343
Isopoda	635.556	3.917	1.489	0.456	Spirorbidae	885.484	2.524	0.724	0.170
Nereidae	514.077	3.168	3.637	1.115	Amphipoda	865.555	2.467	1.887	0.444
Spirorbidae	415.287	2.559	0.377	0.116	Siphonariidae	716.113	2.041	18.456	4.345
Cirratulidae	277.316	1.709	0.574	0.176	Trochidae	649.111	1.850	1.802	0.424
Diptera	241.667	1.489	0.954	0.292	Sigalionidae	521.201	1.485	0.211	0.050
Syllidae	190.716	1.175	0.399	0.122	Syllidae	437.882	1.248	0.317	0.075
Siphonariidae	153.072	0.943	3.858	1.183	Platyhelminthes	355.556	1.013	0.370	0.087
Mytilidae	149.661	0.922	7.662	2.349	Orbinidae	301.132	0.858	1.143	0.269
Sigalionidae	143.913	0.887	0.043	0.013	Isopoda	293.883	0.838	0.422	0.099
Platyhelminthes	107.222	0.661	0.106	0.032	Mytilidae	286.479	0.816	10.062	2.369
Idoteidae	102.222	0.630	3.129	0.959	Balanidae	193.077	0.550	57.288	13.489
Lottiidae	81.127	0.500	4.241	1.300	Nemertea	188.333	0.537	1.378	0.325
Copepoda	58.333	0.360	0.007	0.002	Actinidae	181.111	0.516	16.367	3.854
Chironomidae	57.778	0.356	0.015	0.005	Copepoda	163.333	0.465	0.017	0.004
Actinidae	56.667	0.349	1.403	0.430	Holothuroidea	142.778	0.407	16.217	3.818
Rissoidae	54.564	0.336	0.032	0.010	Turbidae	131.691	0.375	0.205	0.048
Orbinidae	52.255	0.322	0.334	0.102	Onchidiidae	77.923	0.222	0.988	0.233
Nemertea	46.667	0.288	0.219	0.067	Diptera	76.111	0.217	0.419	0.099
Capitellidae	45.003	0.277	0.046	0.014	Forifera	70.556	0.201	1.455	0.343
Holothuroidea	31.667	0.195	6.576	2.016	Capitellidae	69.473	0.198	0.085	0.020
Gastropoda	30.556	0.188	0.033	0.010	Lepidochitonidae	53.889	0.154	0.381	0.090
Scalibregmidae	24.460	0.151	0.083	0.025	Lottiidae	42.175	0.120	2.533	0.596
Caecidae	24.204	0.149	0.002	0.001	Phyllocididae	39.456	0.112	0.058	0.014
Spionidae	20.028	0.123	0.028	0.009	Acari	37.778	0.108	0.014	0.003
Onchidiidae	19.402	0.120	0.562	0.172	Idoteidae	34.444	0.098	0.879	0.207
Lepidochitonidae	16.667	0.103	0.097	0.030	Asteridae	32.778	0.093	1.708	0.402
Lumbrineridae	15.009	0.092	0.006	0.002	Spionidae	30.008	0.086	0.111	0.026
Sipuncula	12.222	0.075	0.843	0.258	Chironomidae	28.056	0.080	0.007	0.002
Nudibranchia	8.886	0.055	0.014	0.004	Sphaerodoridae	21.674	0.062	0.022	0.005
Sphaerodoridae	8.348	0.051	0.007	0.002	Coleoptera	21.389	0.061	0.008	0.002
Acari	8.333	0.051	0.002	0.001	Sipuncula	15.556	0.044	0.887	0.209
Buccinidae	8.331	0.051	2.610	0.800	Buccinidae	13.369	0.038	6.617	1.558
Cumacea	7.778	0.048	*	*	Skeneopsidae	12.875	0.037	0.003	0.001
Paguridae	7.222	0.045	0.722	0.221	Pseudoscorpionida	10.000	0.028	0.016	0.004
Nucellidae	5.082	0.031	0.679	0.208	Amphinomidae	9.448	0.027	0.002	0.000
Asteriidae	5.000	0.031	1.114	0.342	Opisthobranchia	9.418	0.027	0.013	0.003
Anthozoa	4.444	0.027	0.068	0.021	Bryozoa	8.333	0.024	0.032	0.007
Pseudoscorpionida	3.333	0.021	*	*	Cumacea	6.667	0.019	0.001	0.000
Phyllocididae	2.779	0.017	0.044	0.013	Tellinidae	6.538	0.019	2.117	0.498
Coleoptera	2.778	0.017	0.002	0.001	Anthozoa	4.444	0.013	0.386	0.091
Cryptoniscidae	1.667	0.010	0.013	0.004	Paguridae	3.333	0.009	0.755	0.178
Bryozoa	1.667	0.010	0.151	0.046	Veneridae	2.949	0.008	1.910	0.450
Asteriidae	1.667	0.010	0.003	0.001	Lumbrineridae	2.779	0.008	0.228	0.054
Balanomorpha	0.556	0.003	0.002	0.001	Pycnogonida	2.222	0.006	0.026	0.006
Cottidae	0.556	0.003	0.071	0.022	Mopaliidae	1.667	0.005	22.606	5.323
Cyclopteridae	0.556	0.003	0.317	0.097	Balanomorpha	1.667	0.005	0.082	0.019
					Asteriidae	1.667	0.005	0.155	0.036
					Hiatellidae	0.983	0.003	1.453	0.342
					Hydrozoa	0.556	0.002	*	*
					Dorvilleidae	0.556	0.002	*	*
					Paraonidae	0.556	0.002	*	*
					Serpulidae	0.556	0.002	0.001	0.000
					Velutinidae	0.556	0.002	0.003	0.001
					Nudibranchia	0.556	0.002	0.004	0.001
					Caprellidea	0.556	0.002	*	*

Table D-13 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1990 2nd visit.

31252C				31252					
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Archaeobalanidae	14355.089	71.216	639.918	70.293	Archaeobalanidae	16328.839	62.692	665.288	77.869
Littorinidae	2255.843	11.191	104.778	11.510	Littorinidae	3127.263	12.007	40.542	4.745
Oligochaeta	1023.889	5.080	0.857	0.094	Mytilidae	1978.333	7.596	32.598	3.815
Mytilidae	695.000	3.448	114.784	12.609	Balanidae	1246.159	4.784	72.577	8.495
Lottidae	660.234	3.275	14.091	1.548	Lottidae	907.461	3.484	16.536	1.935
Platyhelminthes	263.333	1.306	0.326	0.036	Oligochaeta	756.667	2.905	0.337	0.039
Balanidae	228.799	1.135	30.611	3.363	Chironomidae	279.322	1.072	0.024	0.003
Diptera	203.750	1.011	0.947	0.104	Nematoda	226.667	0.870	0.007	0.001
Nematoda	119.444	0.593	0.005	0.001	Diptera	222.757	0.855	0.809	0.095
Cirratulidae	77.222	0.383	0.089	0.010	Sigalionidae	148.889	0.572	0.034	0.004
Chironomidae	60.139	0.298	0.005	0.001	Platyhelminthes	132.222	0.508	0.073	0.009
Amphipoda	41.667	0.207	0.046	0.005	Amphipoda	116.111	0.446	0.415	0.049
Isopoda	30.556	0.152	0.033	0.004	Trochidae	101.831	0.391	0.216	0.025
Nemertea	19.444	0.096	0.529	0.058	Sabellidae	68.889	0.264	0.004	0.000
Collembola	19.444	0.096	0.017	0.002	Syllidae	53.889	0.207	0.188	0.022
Sabellidae	18.333	0.091	0.002	0.000	Rissoidae	52.013	0.200	0.061	0.007
Syllidae	17.778	0.088	0.019	0.002	Nemertea	48.889	0.188	0.106	0.012
Pseudoscorpionida	13.333	0.066	0.016	0.002	Copepoda	30.556	0.117	0.002	0.000
Sigalionidae	10.556	0.052	0.004	0.000	Onchidorididae	20.204	0.078	5.097	0.597
Phyllodocidae	8.333	0.041	0.055	0.006	Isopoda	18.333	0.070	0.065	0.008
Nucellidae	7.020	0.035	1.292	0.142	Phyllodocidae	17.222	0.066	0.079	0.009
Siphonariidae	5.702	0.028	0.384	0.042	Spirorbidae	16.667	0.064	0.025	0.003
Paguridae	5.556	0.028	0.391	0.043	Turtoniidae	16.667	0.064	0.023	0.003
Onchidorididae	3.906	0.019	1.132	0.124	Nereidae	15.556	0.060	0.029	0.003
Turtoniidae	3.333	0.017	0.002	0.000	Cirratulidae	15.000	0.058	0.026	0.003
Cryptoniscidae	2.778	0.014	0.004	0.000	Spionidae	9.444	0.036	0.022	0.003
Acari	2.222	0.011	*	*	Cumacea	9.444	0.036	0.002	0.000
Cumacea	2.222	0.011	0.001	0.000	Cryptoniscidae	9.444	0.036	0.028	0.003
Onchidiidae	1.182	0.006	0.016	0.002	Acari	8.889	0.034	0.002	0.000
Actiniidae	0.556	0.003	0.001	0.000	Nucellidae	8.362	0.032	3.913	0.458
Coleoptera	0.556	0.003	*	*	Coleoptera	7.917	0.030	0.001	0.000
					Veneridae	6.667	0.026	13.215	1.547
					Paguridae	5.000	0.019	0.231	0.027
					Lacunidae	4.474	0.017	0.004	0.000
					Caecidae	4.444	0.017	*	*
					Pseudoscorpionida	4.444	0.017	0.005	0.001
					Onchidiidae	3.914	0.015	1.011	0.118
					Terebellidae	3.333	0.013	0.084	0.010
					Collembola	2.782	0.011	*	*
					Siphonariidae	2.222	0.009	0.030	0.004
					Buccinidae	1.702	0.007	0.201	0.024
					Hiattellidae	1.667	0.006	0.384	0.045
					Bryozoa	1.111	0.004	0.008	0.001
					Porifera	0.556	0.002	0.001	0.000
					Sphaerodoridae	0.556	0.002	*	*
					Lumbrineridae	0.556	0.002	0.038	0.004
					Capitellidae	0.556	0.002	0.007	0.001
					Pyramidellidae	0.556	0.002	0.002	0.000
					Caprellidae	0.556	0.002	*	*
					Sipuncula	0.556	0.002	0.017	0.002
					Holothuroidea	0.556	0.002	0.002	0.000

Table D-13 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1990 2nd visit.

31252C					31248				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	14355.089	71.216	639.918	70.293	Archaeobalanidae	14605.921	69.312	754.920	80.527
Littorinidae	2255.843	11.191	104.778	11.510	Littorinidae	1776.686	8.431	64.718	6.908
Oligochaeta	1023.889	5.080	0.857	0.094	Oligochaeta	1081.667	5.133	0.673	0.072
Mytilidae	695.000	3.448	114.784	12.609	Mytilidae	1019.638	4.839	44.268	4.721
Lottidae	660.234	3.275	14.091	1.548	Lottidae	692.747	3.287	14.268	1.521
Platyhelminthes	263.333	1.306	0.326	0.036	Balanidae	541.856	2.571	40.320	4.301
Balanidae	228.799	1.135	30.611	3.363	Chironomidae	252.778	1.200	0.021	0.002
Diptera	203.750	1.011	0.947	0.104	Amphipoda	238.333	1.131	0.279	0.030
Nematoda	119.444	0.593	0.005	0.001	Diptera	183.889	0.873	1.062	0.113
Cirratulidae	77.222	0.383	0.089	0.009	Portifera	174.444	0.828	0.462	0.049
Chironomidae	60.139	0.298	0.005	0.001	Turtonidae	67.450	0.320	1.004	0.107
Amphipoda	41.667	0.207	0.046	0.005	Platyhelminthes	59.444	0.282	0.056	0.006
Isopoda	30.556	0.152	0.033	0.004	Nematoda	58.889	0.279	0.003	0.000
Nemertea	19.444	0.096	0.329	0.058	Cumacea	45.556	0.216	0.014	0.001
Collembola	19.444	0.096	0.017	0.002	Nemertea	42.222	0.200	0.139	0.015
Sabellidae	18.333	0.091	0.002	0.000	Sigalionidae	42.144	0.200	0.023	0.002
Syllidae	17.778	0.088	0.019	0.002	Rissoidae	31.308	0.149	0.078	0.008
Pseudoscorpionida	13.333	0.066	0.016	0.002	Syllidae	18.333	0.087	0.104	0.011
Sigalionidae	10.556	0.052	0.004	0.000	Paguridae	18.333	0.087	1.110	0.118
Phyllococidae	8.333	0.041	0.055	0.006	Isopoda	14.444	0.069	0.029	0.003
Nucellidae	7.020	0.035	1.292	0.142	Nereidae	12.222	0.058	0.017	0.002
Siphonariidae	5.702	0.028	0.384	0.042	Pseudoscorpionida	11.667	0.055	0.007	0.001
Paguridae	5.556	0.028	0.391	0.043	Trochidae	10.653	0.051	0.088	0.009
Onchidorididae	3.906	0.019	1.132	0.124	Onchidorididae	9.532	0.045	5.970	0.637
Turtonidae	3.333	0.017	0.002	0.000	Sabellidae	9.444	0.045	*	*
Cryptoniscidae	2.778	0.014	0.004	0.000	Copepoda	9.444	0.045	0.001	0.000
Acari	2.222	0.011	*	*	Phyllococidae	7.248	0.034	0.022	0.002
Cumacea	2.222	0.011	0.001	0.000	Siphonariidae	6.149	0.029	0.322	0.034
Onchidiidae	1.182	0.006	0.016	0.002	Cirratulidae	5.052	0.024	0.009	0.001
Actinidae	0.556	0.003	0.001	0.000	Veneridae	4.513	0.021	1.230	0.131
Coleoptera	0.556	0.003	*	*	Tellinidae	3.385	0.016	0.046	0.005
					Nucellidae	3.384	0.016	2.288	0.244
					Opheliidae	1.667	0.008	0.001	0.000
					Collembola	1.667	0.008	0.001	0.000
					Coleoptera	1.667	0.008	0.001	0.000
					Holothuroidea	1.667	0.008	0.374	0.040
					Lepidochitonidae	1.111	0.005	0.039	0.004
					Montacutidae	0.564	0.003	0.001	0.000
					Hiatellidae	0.564	0.003	0.047	0.005
					Buccinidae	0.561	0.003	0.227	0.024
					Actiniidae	0.556	0.003	0.004	0.000
					Capitellidae	0.556	0.003	*	*
					Amphictenidae	0.556	0.003	0.009	0.001
					Spirorbidae	0.556	0.003	*	*
					Mopaliidae	0.556	0.003	3.074	0.328
					Acari	0.556	0.003	0.001	0.000
					Bryozoa	0.556	0.003	0.008	0.001
					Asteriidae	0.556	0.003	0.153	0.016

Table D-13 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1990 2nd visit.

99826C					33141				
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Archaeobalanidae	8990.606	34.718	525.550	26.230	Nematoda	2905.635	27.202	0.096	0.019
Oligochaeta	7693.611	29.710	6.639	0.331	Littorinidae	1308.932	12.254	63.987	12.539
Turtoniidae	1623.998	6.271	1.436	0.072	Mytilidae	1099.392	10.292	241.688	47.363
Cirratulidae	1609.866	6.217	1.575	0.079	Balanidae	895.871	8.387	144.689	28.354
Littorinidae	1272.622	4.914	89.341	4.459	Syllidae	753.599	7.055	0.335	0.066
Mytilidae	1078.022	4.163	1297.610	64.764	Cirratulidae	721.248	6.752	3.010	0.590
Nematoda	847.222	3.272	0.051	0.003	Oligochaeta	583.222	5.460	0.238	0.047
Lottidae	684.622	2.644	38.356	1.914	Amphipoda	520.447	4.872	1.171	0.229
Amphipoda	497.500	1.921	0.333	0.017	Turtoniidae	259.014	2.425	0.274	0.054
Nemertea	299.722	1.157	1.299	0.065	Phyllococidae	240.249	2.249	0.780	0.153
Diptera	248.889	0.961	1.003	0.050	Lottidae	219.031	2.050	4.978	0.975
Phyllococidae	237.626	0.918	1.008	0.050	Nemertea	204.374	1.913	2.121	0.416
Orbiniidae	139.460	0.539	0.583	0.029	Archaeobalanidae	164.900	1.544	7.304	1.431
Chironomidae	136.111	0.526	0.019	0.001	Sigalionidae	137.327	1.286	0.042	0.008
Platyhelminthes	114.167	0.441	0.321	0.016	Platyhelminthes	88.826	0.832	0.089	0.017
Balanidae	84.116	0.325	12.444	0.621	Trochidae	80.267	0.751	0.052	0.010
Tellinidae	64.849	0.250	7.963	0.397	Copepoda	77.333	0.724	0.001	0.000
Syllidae	60.391	0.233	0.026	0.001	Lacunidae	64.000	0.599	0.079	0.015
Capitellidae	38.964	0.150	0.120	0.006	Orbiniidae	63.563	0.595	0.143	0.028
Paguridae	38.056	0.147	2.090	0.104	Cumacea	44.000	0.412	0.001	0.000
Isopoda	33.611	0.130	0.391	0.020	Actinidae	38.000	0.356	15.045	2.948
Spionidae	16.698	0.064	0.015	0.001	Saccocirridae	33.396	0.313	0.031	0.006
Pseudoscorpionida	16.111	0.062	0.032	0.002	Paguridae	25.778	0.241	0.945	0.185
Sabellidae	10.293	0.040	*	*	Diptera	13.213	0.124	0.039	0.008
Arenicolidae	8.353	0.032	1.591	0.079	Rissoidae	12.319	0.115	0.031	0.006
Nucellidae	8.093	0.031	5.023	0.251	Siphonariidae	11.490	0.108	0.354	0.069
Cumacea	6.389	0.025	*	*	Chironomidae	11.417	0.107	0.002	0.000
Sigalionidae	5.286	0.020	0.004	0.000	Polynoidae	11.342	0.106	0.003	0.001
Onchidorididae	5.024	0.019	0.102	0.005	Sabellidae	10.005	0.094	0.008	0.002
Rissoidae	3.914	0.015	0.007	0.000	Asteriidae	8.667	0.081	3.370	0.660
Sphaerodoridae	3.339	0.013	0.002	0.000	Spirorbidae	8.000	0.075	0.002	0.000
Coleoptera	3.333	0.013	*	*	Acari	8.000	0.075	0.002	0.000
Echiuridae	3.333	0.013	0.028	0.001	Isopoda	6.000	0.056	0.046	0.009
Copepoda	1.667	0.006	*	*	Capitellidae	5.339	0.050	0.009	0.002
Porifera	1.111	0.004	*	*	Balanomorphae	4.741	0.044	0.024	0.005
Pyramidellidae	1.002	0.004	0.002	0.000	Amphinomidae	4.000	0.037	*	*
Veneridae	0.909	0.004	8.589	0.429	Onchidorididae	4.000	0.037	0.039	0.008
Goniadidae	0.835	0.003	0.031	0.002	Stichaeidae	3.222	0.030	0.223	0.044
Terebellidae	0.835	0.003	*	*	Collembola	3.216	0.030	*	*
Epicaridea	0.833	0.003	0.001	0.000	Nereidae	2.667	0.025	0.001	0.000
Collembola	0.833	0.003	*	*	Lepidochitonidae	2.667	0.025	*	*
Asterioidea	0.833	0.003	*	*	Veneridae	2.667	0.025	5.155	1.010
Polychaeta	0.556	0.002	*	*	Nucellidae	2.667	0.025	1.671	0.328
Nereidae	0.556	0.002	*	*	Pyramidellidae	2.435	0.023	0.003	0.001
Lacunidae	0.556	0.002	*	*	Coleoptera	2.154	0.020	*	*
Idoteidae	0.556	0.002	0.012	0.001	Spionidae	1.336	0.013	*	*
Cryptoniscidae	0.556	0.002	*	*	Mopaliidae	1.333	0.012	9.731	1.907
					Montacutidae	1.333	0.012	0.004	0.001
					Idoteidae	1.333	0.012	0.005	0.001
					Holothuroidea	1.333	0.012	0.030	0.006
					Epicaridea	1.111	0.010	0.002	0.000
					Porifera	0.667	0.006	0.001	0.000
					Opheliidae	0.667	0.006	*	*
					Amphictenidae	0.667	0.006	0.002	0.000
					Opisthobranchia	0.667	0.006	0.001	0.000
					Pycnogonida	0.667	0.006	0.001	0.000
					Grapsidae	0.667	0.006	2.184	0.428
					Echiuridae	0.667	0.006	0.225	0.044
					Cottidae	0.667	0.006	0.021	0.004

Table D-14. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1991. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

30196C					30196				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Littorinidae	3633.035	34.317	104.148	25.335	Littorinidae	1946.121	21.116	58.308	16.264
Archaeobalanidae	2904.725	27.438	208.019	50.603	Turtoniidae	1305.530	14.166	1.787	0.498
Oligochaeta	816.667	7.714	0.387	0.094	Oligochaeta	1284.778	13.940	0.600	0.167
Balanidae	655.275	6.190	71.367	17.361	Nematoda	1145.444	12.429	0.025	0.007
Turtoniidae	587.452	5.549	0.609	0.148	Sabellidae	673.540	7.308	0.188	0.052
Sabellidae	511.655	4.833	0.640	0.156	Archaeobalanidae	502.923	5.457	210.363	58.678
Nematoda	337.222	3.185	0.041	0.010	Rissoiidae	447.708	4.858	0.564	0.157
Trochidae	122.369	1.156	1.284	0.312	Siphonariidae	265.201	2.878	6.776	1.890
Mytilidae	117.548	1.110	2.127	0.518	Cirratulidae	250.399	2.717	0.177	0.049
Syllidae	110.281	1.042	0.638	0.155	Balanidae	232.299	2.521	46.978	13.104
Siphonariidae	109.504	1.034	4.260	1.036	Mytilidae	155.025	1.682	11.047	3.082
Lottiidae	91.791	0.867	5.642	1.372	Lacunidae	146.418	1.589	0.380	0.106
Diptera	80.611	0.761	0.976	0.237	Lottiidae	126.480	1.372	9.161	2.555
Isopoda	78.333	0.740	0.398	0.097	Amphipoda	103.889	1.127	1.812	0.505
Amphipoda	68.333	0.645	1.064	0.259	Chironomidae	77.000	0.835	0.011	0.003
Cirratulidae	57.823	0.546	0.066	0.016	Syllidae	65.622	0.712	0.018	0.005
Idoteidae	55.556	0.525	3.012	0.733	Platyhelminthes	65.444	0.710	0.067	0.019
Nereidae	43.102	0.407	1.098	0.267	Nereidae	59.858	0.649	1.643	0.458
Platyhelminthes	31.667	0.299	0.063	0.015	Orbinidae	39.311	0.427	0.170	0.048
Hydrozoa	23.333	0.220	*	*	Actinidae	34.333	0.373	4.315	1.204
Spirorbidae	21.558	0.204	0.010	0.002	Idoteidae	33.222	0.360	0.098	0.027
Chironomidae	21.056	0.199	0.004	0.001	Isopoda	33.111	0.359	0.044	0.012
Onchidiidae	20.919	0.198	0.252	0.061	Trochidae	31.849	0.346	0.147	0.041
Lacunidae	16.239	0.153	0.117	0.029	Sigalionidae	29.345	0.318	0.009	0.003
Actinidae	16.111	0.152	2.485	0.605	Spirorbidae	28.815	0.313	0.005	0.001
Spionidae	12.796	0.121	0.035	0.008	Onchidiidae	23.486	0.255	0.296	0.083
Nemertea	8.333	0.079	0.072	0.017	Skeneopsidae	16.846	0.183	0.004	0.001
Pseudoscorpionida	3.889	0.037	*	*	Diptera	13.556	0.147	0.115	0.032
Asteriidae	2.778	0.026	0.036	0.009	Nemertea	11.222	0.122	0.122	0.034
Rissoiidae	2.744	0.026	0.007	0.002	Capitellidae	10.556	0.115	0.007	0.002
Bivalvia	2.222	0.021	*	*	Lepidochitonidae	8.667	0.094	0.167	0.046
Copepoda	2.222	0.021	*	*	Tellinidae	7.879	0.085	0.102	0.028
Cryptoniscidae	2.222	0.021	*	*	Holothuroidea	6.778	0.074	0.580	0.162
Anthozoa	1.667	0.016	0.396	0.096	Pseudoscorpionida	5.000	0.054	0.010	0.003
Sigalionidae	1.667	0.016	*	*	Nucellidae	4.784	0.052	1.565	0.437
Phyllodocidae	1.667	0.016	*	*	Phyllodocidae	2.695	0.029	0.001	0.000
Capitellidae	1.667	0.016	*	*	Doryvilleidae	2.029	0.022	*	*
Acari	1.667	0.016	*	*	Scalibregmidae	2.029	0.022	0.023	0.006
Collembola	1.667	0.016	*	*	Sphaerodoridae	2.025	0.022	*	*
Holothuroidea	1.667	0.016	0.594	0.145	Cumacea	2.000	0.022	*	*
Nucellidae	1.120	0.011	0.620	0.151	Bryozoa	2.000	0.022	0.002	0.001
Porifera	1.111	0.010	0.024	0.006	Porifera	1.778	0.019	0.015	0.004
Paguridae	1.111	0.010	0.554	0.135	Hydrozoa	1.333	0.014	*	*
Skeneopsidae	0.593	0.006	*	*	Acari	1.333	0.014	*	*
Nudibranchia	0.573	0.005	0.027	0.007	Collembola	1.333	0.014	0.001	0.000
Sphaerodoridae	0.562	0.005	*	*	Paguridae	1.222	0.013	0.137	0.038
Sipuncula	0.556	0.005	0.006	0.001	Montacutidae	0.788	0.009	0.002	0.001
					Pycnogonida	0.667	0.007	0.001	0.000
					Atelecyclidae	0.667	0.007	0.475	0.132
					Asteriidae	0.667	0.007	0.033	0.009
					Pholididae	0.667	0.007	0.153	0.043
					Balanomorpha	0.556	0.006	0.001	0.000

Table D-14 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1991.

31252C					31252				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	3853.529	54.997	240.040	54.003	Archaeobalanidae	14208.270	64.324	462.101	64.255
Littorinidae	1386.650	19.790	64.852	14.590	Littorinidae	3945.702	17.363	50.480	7.019
Mytilidae	543.556	7.758	89.512	20.138	Mytilidae	1632.633	7.391	64.087	8.911
Lottidae	458.539	6.544	13.408	3.017	Balanidae	1018.175	4.609	109.259	15.192
Oligochaeta	250.444	3.574	0.372	0.084	Lottidae	605.492	2.741	13.627	1.895
Balanidae	231.915	3.310	33.100	7.447	234.000	1.059	0.121	0.017	
Platyhelminthes	103.667	1.480	0.164	0.037	Oligochaeta	109.000	0.493	0.013	0.002
Amphipoda	59.556	0.850	0.164	0.037	Chironomidae	58.222	0.264	0.883	0.123
Chironomidae	23.667	0.338	0.004	0.001	Diptera	56.112	0.254	0.335	0.047
Cirratulidae	22.000	0.314	0.017	0.004	Trochidae	47.297	0.214	0.029	0.004
Diptera	17.222	0.246	0.226	0.051	Spirorbidae	36.222	0.164	0.063	0.009
Nematoda	11.667	0.167	*	*	Platyhelminthes	31.470	0.142	0.056	0.008
Pseudoscorpionida	9.111	0.130	0.011	0.002	Turtoniidae	21.667	0.098	0.148	0.021
Nemertea	8.889	0.127	0.077	0.017	Amphipoda	16.592	0.075	0.062	0.009
Sigalionidae	8.889	0.127	0.004	0.001	Syllidae	12.126	0.055	12.833	1.784
Nucellidae	4.672	0.067	1.379	0.310	Sigalionidae	11.333	0.051	0.006	0.001
Siphonariidae	3.889	0.056	0.261	0.059	Pseudoscorpionida	10.667	0.048	0.012	0.002
Collembola	3.111	0.044	0.001	0.000	Nemertea	8.667	0.039	0.064	0.009
Syllidae	2.778	0.040	0.032	0.007	Cumacea	6.000	0.027	*	*
Paguridae	1.111	0.016	0.013	0.003	Nematoda	3.889	0.018	*	*
Rissoidae	0.694	0.010	0.848	0.191	Actinidae	2.000	0.009	0.523	0.073
Turtoniidae	0.667	0.010	*	*	Phyllocladidae	2.000	0.009	0.039	0.005
Onchidiidae	0.556	0.008	0.008	0.002	Nereidae	2.000	0.009	0.002	0.000
					Isopoda	2.000	0.009	0.006	0.001
					Siphonariidae	1.455	0.007	0.012	0.002
					Paguridae	1.333	0.006	0.130	0.018
					Cryptoniscidae	1.222	0.006	*	*
					Veneridae	0.675	0.003	1.711	0.238
					Spionidae	0.667	0.003	*	*
					Mopaliidae	0.667	0.003	2.566	0.357
					Sabellidae	0.556	0.003	*	*
					Copepoda	0.556	0.003	*	*

Table D-14 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1991.

31252C					31248				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	3853.529	54.997	240.040	54.003	Archaeobalanidae	8605.047	60.052	675.472	79.144
Littorinidae	1386.650	19.790	64.852	14.590	Littorinidae	2730.316	19.054	76.930	9.014
Mytilidae	543.556	7.758	89.512	20.138	Mytilidae	1009.362	7.044	37.332	4.374
Lottidae	458.539	6.544	13.408	3.017	Lottidae	495.026	3.455	13.216	1.549
Oligochaeta	250.444	3.574	0.372	0.084	Balanidae	445.508	3.109	34.645	4.059
Balanidae	231.915	3.310	33.100	7.447	Chironomidae	288.813	2.016	0.040	0.005
Platyhelminthes	103.667	1.480	0.164	0.037	Spirorbidae	168.796	1.178	0.118	0.014
Amphipoda	59.556	0.850	0.164	0.037	Oligochaeta	142.222	0.993	0.110	0.013
Chironomidae	23.667	0.338	0.004	0.001	Platyhelminthes	102.222	0.713	0.126	0.015
Cirratulidae	22.000	0.314	0.017	0.004	Syllidae	69.526	0.485	0.149	0.017
Diptera	17.222	0.246	0.226	0.051	Diptera	54.520	0.380	1.017	0.119
Nematoda	11.667	0.167	*	*	Porifera	43.889	0.306	0.070	0.008
Pseudoscorpionida	9.111	0.130	0.011	0.002	Amphipoda	38.889	0.271	0.343	0.040
Nemertea	8.889	0.127	0.077	0.017	Paguridae	30.000	0.209	1.208	0.141
Sigalionidae	8.889	0.127	0.004	0.001	Nemertea	27.222	0.190	0.219	0.026
Nucellidae	4.672	0.067	1.379	0.310	Nematoda	16.111	0.112	0.001	0.000
Siphonariidae	3.889	0.056	0.261	0.059	Turtoniidae	11.749	0.082	0.013	0.002
Collembola	3.111	0.044	0.001	0.000	Sigalionidae	10.557	0.074	0.004	0.000
Syllidae	2.778	0.040	0.032	0.007	Nucellidae	10.108	0.071	12.189	1.428
Paguridae	1.111	0.016	0.013	0.003	Pseudoscorpionida	5.000	0.035	0.005	0.001
Rissoidae	0.694	0.010	0.848	0.191	Acar	4.444	0.031	*	*
Turtoniidae	0.667	0.010	*	*	Rissoidae	3.912	0.027	0.019	0.002
Onchidiidae	0.556	0.008	0.008	0.002	Cirratulidae	3.892	0.027	0.002	0.000
					Siphonariidae	3.383	0.024	0.138	0.016
					Nereidae	2.782	0.019	0.004	0.000
					Onchidiidae	1.699	0.012	0.029	0.003
					Phyllodocidae	0.557	0.004	0.017	0.002
					Sabellidae	0.557	0.004	*	*
					Hydrozoa	0.556	0.004	0.053	0.006
					Pycnogonida	0.556	0.004	*	*
					Cumacea	0.556	0.004	*	*
					Isopoda	0.556	0.004	*	*
					Idoteidae	0.556	0.004	0.001	0.000
					Collembola	0.556	0.004	*	*

Table D-14 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, sheltered rocky sites, 1991.

99826C

33141

Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	7571.199	48.611	474.195	40.313	Oligochaeta	1101.672	18.938	0.457	0.268
Oligochaeta	2470.556	15.862	0.946	0.080	Balanidae	769.903	13.235	101.060	59.360
Littorinidae	1481.600	9.513	71.433	6.073	Littorinidae	752.134	12.930	23.664	13.900
Nematoda	1032.778	6.631	0.108	0.009	Cirratulidae	751.186	12.913	0.653	0.384
Mytilidae	541.520	3.477	560.737	47.671	Nematoda	715.372	12.298	0.011	0.007
Lottidae	534.193	3.430	23.775	2.021	Mytilidae	365.811	6.289	16.779	9.855
Chironomidae	341.949	2.195	0.078	0.007	Archaeobalanidae	321.580	5.528	21.186	12.444
Turtoniidae	262.144	1.683	0.280	0.024	Sigalionidae	190.286	3.271	0.025	0.014
Cirratulidae	238.889	1.534	0.287	0.024	Syllidae	131.401	2.259	0.129	0.076
Balanidae	218.245	1.401	34.581	2.940	Lottidae	121.751	2.093	3.899	2.290
Amphipoda	191.944	1.232	0.745	0.063	Phyllodocidae	96.147	1.653	0.410	0.241
Sabellidae	150.278	0.965	0.038	0.003	Orbiniidae	93.032	1.599	0.060	0.036
Diptera	137.496	0.883	0.823	0.070	Turtoniidae	92.778	1.595	0.122	0.072
Nemertea	72.500	0.465	3.399	0.289	Platyhelminthes	65.739	1.130	0.063	0.037
Collembola	60.000	0.385	0.005	0.000	Nemertea	44.139	0.759	0.773	0.464
Platyhelminthes	43.056	0.276	0.046	0.004	Collembola	40.739	0.700	0.009	0.005
Paguridae	39.167	0.251	0.448	0.038	Amphipoda	35.061	0.603	0.150	0.088
Phyllodocidae	34.444	0.221	0.644	0.055	Sabellidae	33.917	0.583	*	*
Cumacea	29.167	0.187	0.010	0.001	Trochidae	13.333	0.229	0.294	0.172
Syllidae	26.389	0.169	0.072	0.006	Cumacea	12.594	0.216	0.056	0.033
Onchidiidae	23.805	0.153	0.200	0.017	Isopoda	9.878	0.170	0.016	0.009
Pseudoscorpionida	20.556	0.132	0.036	0.003	Saccocirridae	7.118	0.122	0.003	0.002
Isopoda	19.444	0.125	0.140	0.012	Siphonariidae	7.037	0.121	0.259	0.152
Skeneopsidae	9.244	0.059	0.008	0.001	Copepoda	6.483	0.111	0.003	0.002
Tellinidae	6.479	0.042	2.174	0.185	Chironomidae	5.739	0.099	*	*
Sigalionidae	5.556	0.036	0.003	0.000	Acari	4.939	0.085	*	*
Nucellidae	3.918	0.025	0.809	0.069	Spionidae	4.444	0.076	0.007	0.004
Rissoidae	3.914	0.025	0.011	0.001	Onchidiidae	4.444	0.076	0.128	0.075
Balanomorpha	3.333	0.021	0.235	0.020	Pseudoscorpionida	3.889	0.067	0.007	0.004
Nereidae	0.833	0.005	0.001	0.000	Diptera	3.889	0.067	0.028	0.016
Idoteidae	0.556	0.004	0.003	0.000	Paraonidae	2.973	0.051	*	*
					Gastropoda	2.961	0.051	*	*
					Capitellidae	2.222	0.038	*	*
					Arenicolidae	1.978	0.034	*	*
					Coleoptera	0.556	0.010	*	*

Table D-15. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1989. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

Control Site Not Sampled

506

Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
					Oligochaeta	1601.667	23.719	0.530	0.083
					Archaeobalanidae	1584.205	23.460	106.654	16.706
					Mytilidae	979.113	14.499	445.918	69.847
					Littorinidae	688.333	10.193	39.016	6.111
					Balanidae	363.052	5.376	12.969	2.031
					Lottiidae	340.000	5.035	13.261	2.077
					Nematoda	331.111	4.903	0.006	0.001
					Foraminiferida	146.667	2.172	0.005	0.001
					Copepoda	118.333	1.752	0.003	0.001
					Amphipoda	97.222	1.440	0.392	0.061
					Paguridae	93.333	1.382	5.607	0.878
					Platyhelminthes	79.444	1.176	0.309	0.048
					Sigalionidae	54.444	0.806	0.012	0.002
					Sabellidae	52.778	0.782	0.002	0.000
					Syllidae	38.889	0.576	0.048	0.007
					Acari	38.333	0.568	*	*
					Turtoniidae	26.326	0.390	0.009	0.001
					Nemertea	23.333	0.346	0.174	0.027
					Cirratulidae	21.667	0.321	0.018	0.003
					Porifera	21.111	0.313	0.028	0.004
					Chironomidae	14.444	0.214	*	*
					Isopoda	5.556	0.082	0.052	0.008
					Pseudoscorpionida	3.889	0.058	0.007	0.001
					Cryptoniscidae	3.889	0.058	0.018	0.003
					Tellinidae	3.602	0.053	0.152	0.024
					Veneridae	3.602	0.053	12.072	1.891
					Diptera	3.333	0.049	0.008	0.001
					Chilopoda	3.333	0.049	0.012	0.002
					Phyllodocidae	2.222	0.033	0.109	0.017
					Nucellidae	2.222	0.033	0.979	0.153
					Hiatellidae	1.802	0.027	*	*
					Spirorbidae	1.667	0.025	*	*
					Collembola	1.667	0.025	*	*
					Capitellidae	1.111	0.016	*	*
					Stichaeidae	1.111	0.016	0.054	0.009

Table D-16. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1990 1st visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

506C					506				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	2451.541	32.424	0.623	0.107	Oligochaeta	2024.467	26.677	1.064	0.250
Mytilidae	992.765	13.130	334.147	57.608	Mytilidae	1704.331	22.458	328.336	77.036
Archaeobalanidae	696.760	9.215	121.038	20.867	Nematoda	1190.233	15.684	0.016	0.004
Littorinidae	682.705	9.029	12.184	2.101	Chironomidae	502.500	6.622	0.026	0.006
Turtoniidae	476.026	6.296	0.286	0.049	Amphipoda	399.075	5.259	0.364	0.086
Cirratulidae	433.905	5.739	1.586	0.273	Turtoniidae	398.129	5.246	0.342	0.080
Nematoda	395.644	5.233	0.002	0.000	Littorinidae	394.619	5.200	29.674	6.962
Sigalionidae	238.678	3.157	0.047	0.008	Archaeobalanidae	234.301	3.087	23.653	5.550
Lottiidae	218.366	2.888	7.266	1.253	Lottiidae	197.170	2.598	11.266	2.643
Balanidae	205.349	2.716	41.773	7.202	Platyhelminthes	118.925	1.567	0.086	0.020
Tanaidacea	120.673	1.596	0.057	0.010	Balanidae	78.841	1.039	2.101	0.493
Nemertea	79.438	1.051	0.284	0.049	Collembola	72.125	0.950	0.051	0.012
Platyhelminthes	68.919	0.912	0.034	0.006	Paguridae	61.883	0.815	4.681	1.098
Rissoidae	65.575	0.867	0.072	0.012	Isopoda	43.417	0.572	0.217	0.051
Amphipoda	56.074	0.742	0.136	0.023	Copepoda	43.333	0.571	0.002	0.000
Chironomidae	50.778	0.672	*	*	Sigalionidae	30.521	0.402	0.007	0.002
Collembola	42.212	0.558	0.018	0.003	Nereidae	14.316	0.189	0.023	0.005
Sabellidae	40.258	0.532	0.003	0.001	Syllidae	11.609	0.153	0.003	0.001
Caecidae	34.099	0.451	0.002	0.000	Nemertea	9.617	0.127	0.068	0.016
Phyllococidae	25.353	0.335	0.069	0.012	Tellinidae	8.592	0.113	1.415	0.332
Paguridae	22.667	0.300	1.563	0.269	Cumacea	8.333	0.110	*	*
Orbiniidae	16.008	0.212	0.049	0.008	Nucellidae	7.500	0.099	19.174	4.499
Veneridae	15.635	0.207	49.640	8.558	Idoteidae	6.667	0.088	0.865	0.203
Tellinidae	14.528	0.192	1.488	0.257	Stichaeidae	5.833	0.077	0.437	0.102
Spirorbidae	14.038	0.186	0.005	0.001	Spirorbidae	4.167	0.055	0.005	0.001
Hiatellidae	13.551	0.179	3.271	0.564	Chilopoda	3.142	0.041	*	*
Pseudoscorpionida	10.694	0.141	0.014	0.002	Capitellidae	1.682	0.022	0.005	0.001
Spionidae	8.591	0.114	0.003	0.000	Hiatellidae	1.673	0.022	0.017	0.004
Cumacea	8.222	0.109	0.003	0.000	Acari	1.667	0.022	*	*
Nereidae	7.017	0.093	0.012	0.002	Balanomorpha	1.667	0.022	0.222	0.052
Stichaeidae	7.000	0.093	0.688	0.119	Diptera	1.667	0.022	0.007	0.002
Chilopoda	6.778	0.090	0.017	0.003	Rissoidae	0.964	0.013	0.002	0.000
Copepoda	6.640	0.088	*	*	Cirratulidae	0.848	0.011	0.002	0.000
Syllidae	4.564	0.060	0.002	0.000	Spionidae	0.833	0.011	*	*
Diptera	4.418	0.058	0.004	0.001	Opheliidae	0.833	0.011	*	*
Terebellidae	4.315	0.057	*	*	Insecta	0.833	0.011	*	*
Capitellidae	3.804	0.050	0.052	0.009	Asteriidae	0.833	0.011	2.053	0.482
Holothuroidea	3.307	0.044	2.263	0.390	Cottidae	0.833	0.011	0.017	0.004
Asteroidea	2.000	0.026	0.001	0.000	Pholididae	0.833	0.011	0.014	0.003
Acari	1.889	0.025	0.002	0.000					
Isopoda	1.889	0.025	0.013	0.002					
Coleoptera	1.333	0.018	*	*					
Trochidae	1.181	0.016	0.017	0.003					
Onchidiidae	1.111	0.015	0.011	0.002					
Polynoidae	0.733	0.010	*	*					
Pyramidellidae	0.685	0.009	0.001	0.000					
Porifera	0.667	0.009	0.022	0.004					
Arachnida	0.667	0.009	*	*					
Cryptoniscidae	0.667	0.009	*	*					
Cancridae	0.667	0.009	1.267	0.218					
Lacunidae	0.563	0.007	0.002	0.000					

Table D-16 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1990 1st visit.

1598C					1598				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	1964.303	25.013	194.299	39.221	Archaeobalanidae	1304.976	40.171	97.246	58.832
Mytilidae	1219.885	15.534	245.036	49.463	Oligochaeta	853.780	26.282	0.184	0.111
Oligochaeta	1042.255	13.272	0.808	0.163	Littorinidae	381.196	11.734	8.647	5.291
Littorinidae	993.920	12.657	17.540	3.541	Balanidae	119.925	3.692	4.983	3.015
Amphipoda	748.505	9.531	1.469	0.297	Mytilidae	102.290	3.149	45.335	27.427
Nematoda	330.942	4.214	0.007	0.001	Lotiidae	94.360	2.905	1.857	1.123
Balanidae	218.664	2.784	6.109	1.233	Nematoda	71.750	2.209	0.010	0.006
Lotiidae	213.162	2.714	5.169	1.043	Platyhelminthes	67.942	2.091	0.057	0.034
Isopoda	211.695	2.696	1.015	0.205	Caecidae	59.050	1.818	0.029	0.017
Nemertea	137.053	1.745	0.507	0.102	Sigalionidae	25.706	0.791	0.006	0.004
Cumacea	124.775	1.589	1.130	0.228	Amphipoda	25.517	0.785	0.061	0.037
Platyhelminthes	93.393	1.189	0.051	0.010	Chilopoda	22.217	0.684	0.040	0.024
Ostracoda	83.333	1.061	0.002	0.000	Isopoda	18.170	0.559	1.231	0.775
Actiniidae	81.667	1.040	0.249	0.050	Nereidae	17.825	0.549	0.197	0.119
Turtoniidae	76.943	0.980	0.031	0.006	Veneridae	15.833	0.487	1.750	1.065
Copepoda	46.667	0.594	*	*	Nemertea	13.838	0.426	0.087	0.053
Sigalionidae	45.166	0.575	0.004	0.001	Hiatellidae	12.258	0.377	3.284	1.987
Chironomidae	40.000	0.509	0.002	0.000	Collembola	9.778	0.301	0.004	0.003
Paguridae	33.333	0.424	1.673	0.338	Turtoniidae	8.050	0.248	0.003	0.002
Phyllocladidae	14.167	0.180	0.039	0.008	Cirratulidae	7.908	0.243	0.009	0.006
Nereidae	12.833	0.163	0.988	0.199	Cumacea	5.717	0.176	*	*
Caecidae	11.498	0.146	0.003	0.001	Syllidae	3.553	0.109	*	*
Asteriidae	10.833	0.138	3.600	0.727	Gastropoda	3.333	0.103	0.136	0.082
Acari	10.000	0.127	*	*	Paguridae	2.742	0.084	0.075	0.045
Chilopoda	8.893	0.113	*	*	Diptera	0.833	0.026	0.005	0.003
Diptera	8.833	0.112	0.005	0.001					
Sabellidae	7.442	0.095	0.175	0.035					
Cirratulidae	7.113	0.091	0.004	0.001					
Collembola	7.113	0.091	*	*					
Balanomorpha	6.667	0.085	0.007	0.002					
Idoteidae	5.833	0.074	1.507	0.304					
Veneridae	5.205	0.066	8.084	1.632					
Lepidochitonidae	5.000	0.064	0.282	0.057					
Tellinidae	4.918	0.063	0.197	0.040					
Grapsidae	4.333	0.055	1.106	0.223					
Rissoidae	4.181	0.053	*	*					
Spionidae	3.333	0.042	*	*					
Nucellidae	2.655	0.034	4.276	0.863					
Coleoptera	1.667	0.021	*	*					
Bryozoa	1.667	0.021	*	*					
Annelida	0.833	0.011	*	*					
Capitellidae	0.833	0.011	0.007	0.002					
Amphictenidae	0.833	0.011	0.007	0.001					
Pseudoscorpionida	0.667	0.008	0.005	0.001					

Table D-16 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1990 1st visit.

846C					846				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Mytilidae	1289.182	29.317	113.483	58.935	Oligochaeta	2479.973	39.033	0.545	0.171
Littorinidae	962.485	21.887	8.185	4.251	Archaeobalanidae	1123.213	17.679	143.521	45.077
Platyhelminthes	385.962	8.777	0.351	0.182	Amphipoda	759.420	11.953	1.159	0.364
Oligochaeta	349.449	7.947	0.071	0.037	Littorinidae	655.291	10.314	14.241	4.473
Turtoniidae	338.189	7.691	0.290	0.151	Nematoda	309.369	4.869	0.007	0.002
Cirratulidae	285.554	6.494	0.189	0.098	Mytilidae	268.714	4.229	79.737	25.044
Archaeobalanidae	241.291	5.487	40.226	20.890	Lottidae	178.783	2.814	5.577	1.752
Lottidae	150.400	3.420	1.534	0.797	Isopoda	175.322	2.759	1.132	0.355
Tellinidae	138.529	3.150	12.461	6.472	Platyhelminthes	122.133	1.922	0.103	0.032
Nematoda	58.592	1.332	0.003	0.002	Sigalionidae	63.373	0.997	0.010	0.003
Sigalionidae	54.347	1.236	0.017	0.009	Balanidae	44.946	0.707	2.181	0.685
Nemertea	53.572	1.218	0.246	0.128	Nereidae	31.384	0.494	2.528	0.794
Balanidae	31.295	0.712	3.462	1.798	Paguridae	29.787	0.469	0.750	0.235
Isopoda	20.483	0.466	0.157	0.082	Tellinidae	28.864	0.454	2.504	0.786
Rissoidae	10.417	0.237	0.024	0.012	Veneridae	24.320	0.383	61.103	19.191
Balanomorpha	8.422	0.192	0.008	0.004	Grapsidae	17.181	0.270	0.780	0.245
Phyllodocidae	3.413	0.078	*	*	Nemertea	6.613	0.104	0.004	0.001
Syllidae	2.844	0.065	*	*	Diptera	6.263	0.099	*	*
Paguridae	2.844	0.065	0.063	0.033	Phyllodocidae	4.740	0.075	0.007	0.002
Chilopoda	2.822	0.064	0.006	0.003	Cirratulidae	3.920	0.062	*	*
Diptera	2.806	0.064	0.022	0.012	Cumacea	3.553	0.056	*	*
Amphipoda	2.000	0.045	0.011	0.006	Sabellidae	3.406	0.054	*	*
Veneridae	1.333	0.030	8.414	4.370	Chilopoda	2.822	0.044	*	*
Chironomidae	0.667	0.015	*	*	Turtoniidae	2.373	0.037	0.005	0.001
Myidae	0.556	0.013	3.333	1.731	Nucellidae	2.027	0.032	2.271	0.713
					Chironomidae	1.778	0.028	*	*
					Syllidae	1.333	0.021	0.001	0.000
					Idoteidae	1.333	0.021	0.227	0.071
					Bivalvia	1.272	0.020	*	*

Table D-16 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1990 1st visit.

1650C					1650				
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Oligochaeta	2400.317	27.467	1.136	0.626	Amphipoda	700.000	33.130	2.163	5.399
Archaeobalanidae	1543.063	17.657	85.767	47.270	Oligochaeta	660.667	31.268	0.489	1.221
Littorinidae	1368.416	15.659	27.858	15.354	Archaeobalanidae	305.319	14.450	29.021	72.445
Mytilidae	1298.689	14.861	42.885	23.636	Platyhelminthes	210.180	9.948	0.081	0.203
Turtoniidae	489.072	5.597	0.560	0.309	Littorinidae	100.673	4.765	3.071	7.666
Amphipoda	469.928	5.377	1.804	0.994	Balanidae	51.349	2.430	3.400	8.488
Lottidae	352.836	4.038	3.639	2.006	Lottidae	49.101	2.324	0.951	2.375
Nematoda	237.144	2.714	0.002	0.001	Mytilidae	15.333	0.726	0.780	1.947
Platyhelminthes	108.294	1.239	0.068	0.038	Nemertea	3.333	0.158	0.031	0.078
Balanidae	91.387	1.046	3.082	1.698	Chilopoda	3.200	0.151	0.006	0.016
Isopoda	61.817	0.707	0.564	0.311	Nematoda	3.067	0.145	*	*
Nemertea	56.950	0.652	0.165	0.091	Collembola	2.500	0.118	*	*
Saccocirridae	49.444	0.566	0.046	0.025	Isopoda	2.000	0.095	0.007	0.017
Annelida	38.333	0.439	0.048	0.027	Balanomorphia	1.333	0.063	0.055	0.138
Cirratulidae	27.286	0.312	0.012	0.007	Paguridae	1.333	0.063	0.003	0.007
Paguridae	23.889	0.273	1.124	0.620	Coleoptera	0.833	0.039	*	*
Syllidae	16.651	0.191	0.006	0.003	Acari	0.667	0.032	*	*
Chironomidae	13.889	0.159	0.003	0.002	Ostracoda	0.667	0.032	*	*
Acari	11.606	0.133	0.001	0.000	Insecta	0.667	0.032	*	*
Cumacea	10.556	0.121	*	*	Diptera	0.667	0.032	*	*
Nucellidae	6.139	0.070	0.588	0.324					
Phyllodocidae	6.127	0.070	0.031	0.017					
Stichaeidae	6.111	0.070	0.173	0.096					
Collembola	6.050	0.069	0.001	0.000					
Spionidae	5.683	0.065	*	*					
Spirorbidae	5.572	0.064	0.004	0.002					
Sigalionidae	4.952	0.057	0.002	0.001					
Pseudoscorpionida	4.628	0.053	0.029	0.016					
Sabellidae	4.444	0.051	*	*					
Rissoidae	3.956	0.045	0.003	0.002					
Idoteidae	3.889	0.045	0.244	0.135					
Buccinidae	1.670	0.019	1.857	1.023					
Diptera	1.667	0.019	0.002	0.001					
Opisthobranchia	1.130	0.013	*	*					
Veneridae	1.111	0.013	9.109	5.021					
Hiatellidae	1.111	0.013	0.008	0.004					
Ostracoda	1.111	0.013	*	*					
Nereidae	0.619	0.007	*	*					
Pyramidellidae	0.556	0.006	0.002	0.001					
Hydrozoa	0.556	0.006	0.001	0.000					
Montacutidae	0.556	0.006	0.002	0.001					
Tanaidacea	0.556	0.006	*	*					
Insecta	0.556	0.006	0.001	0.000					
Asteriidae	0.556	0.006	0.616	0.340					

Table D-17. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1990 2nd visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

506C					506				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	2214.778	27.904	0.452	0.070	Mytilidae	4421.689	37.529	598.977	87.236
Mytilidae	1133.940	14.286	428.798	65.904	Oligochaeta	3093.650	26.257	1.548	0.225
Littorinidae	892.340	11.242	17.414	2.677	Littorinidae	1232.611	10.462	26.763	3.898
Archaeobalanidae	837.021	10.546	138.268	21.251	Nematoda	808.617	6.863	0.063	0.009
Cirratulidae	535.032	6.741	0.568	0.087	Platyhelminthes	545.550	4.630	0.554	0.081
Turtoniidae	499.430	6.292	0.304	0.047	Lottidae	395.728	3.359	6.323	0.921
Nematoda	398.222	5.017	0.031	0.005	Amphipoda	284.692	2.416	0.276	0.040
Sigalionidae	206.340	2.600	0.058	0.009	Archaeobalanidae	259.018	2.198	19.795	2.883
Lottidae	160.638	2.024	5.998	0.922	Balanidae	238.756	2.026	18.164	2.645
Balanidae	155.202	1.955	45.245	6.954	Turtoniidae	79.612	0.676	0.052	0.008
Nemertea	127.444	1.606	1.436	0.221	Paguridae	51.108	0.434	2.528	0.368
Chironomidae	113.889	1.435	0.010	0.002	Nemertea	49.442	0.420	0.487	0.071
Collembola	105.889	1.334	0.059	0.009	Spirorbidae	45.833	0.389	0.059	0.009
Platyhelminthes	103.889	1.309	0.080	0.012	Sigalionidae	39.167	0.332	0.009	0.001
Diptera	65.778	0.829	0.164	0.025	Chironomidae	32.467	0.276	*	*
Amphipoda	53.000	0.668	0.133	0.020	Isopoda	29.442	0.250	0.062	0.009
Rissoidae	47.935	0.604	0.044	0.007	Nereidae	28.333	0.240	0.194	0.028
Copepoda	44.667	0.563	0.001	0.000	Sabellidae	24.167	0.205	*	*
Pseudoscorpionida	22.778	0.287	0.041	0.006	Lacunidae	11.372	0.097	0.031	0.005
Paguridae	19.556	0.246	1.291	0.198	Balanomorpha	10.833	0.092	0.383	0.056
Caecidae	18.219	0.230	0.014	0.002	Hiatellidae	8.414	0.071	1.271	0.185
Tanaidacea	17.333	0.218	0.004	0.001	Opheliidae	8.333	0.071	0.003	0.000
Sabellidae	16.778	0.211	0.001	0.000	Porifera	7.500	0.064	0.010	0.001
Cumacea	14.444	0.182	0.001	0.000	Cumacea	6.942	0.059	*	*
Isopoda	14.000	0.176	0.058	0.009	Phyllodocidae	5.833	0.050	0.005	0.001
Orbiniidae	13.403	0.169	0.082	0.013	Acari	5.833	0.050	*	*
Acari	12.667	0.160	*	*	Stichaeidae	5.833	0.050	0.294	0.043
Phyllodocidae	10.667	0.134	0.007	0.001	Syllidae	5.000	0.042	0.006	0.001
Opheliidae	10.667	0.134	0.003	0.001	Chilopoda	4.442	0.038	*	*
Lepidochitonidae	8.000	0.101	0.021	0.003	Spionidae	4.167	0.035	0.003	0.000
Onchidiidae	7.719	0.097	0.081	0.012	Tellinidae	4.167	0.035	0.236	0.034
Spionidae	7.111	0.090	0.002	0.000	Amphictenidae	3.333	0.028	0.001	0.000
Amphictenidae	6.667	0.084	0.050	0.008	Lepidochitonidae	3.333	0.028	0.066	0.010
Nereidae	5.333	0.067	0.045	0.007	Nucellidae	3.333	0.028	7.450	1.085
Stichaeidae	5.333	0.067	1.199	0.184	Trochidae	2.624	0.022	0.084	0.012
Cryptoniscidae	3.333	0.042	0.020	0.003	Grapsidae	2.500	0.021	0.097	0.014
Chilopoda	3.333	0.042	0.004	0.001	Echinoidea	2.500	0.021	*	*
Tellinidae	3.273	0.041	0.494	0.076	Onchidiidae	1.749	0.015	0.069	0.010
Veneridae	2.667	0.034	7.520	1.156	Opiatobranchia	1.749	0.015	*	*
Arachnida	2.222	0.028	*	*	Cirratulidae	1.667	0.014	0.002	0.000
Lacunidae	2.016	0.025	0.001	0.000	Rissoidae	1.667	0.014	0.002	0.000
Capitellidae	2.003	0.025	0.001	0.000	Pyramidellidae	1.667	0.014	0.006	0.001
Spirorbidae	2.000	0.025	0.001	0.000	Diptera	1.667	0.014	0.003	0.000
Trochidae	2.000	0.025	0.001	0.000	Asteriidae	1.667	0.014	0.637	0.093
Hiatellidae	1.359	0.017	0.209	0.032	Orbiniidae	0.833	0.007	*	*
Polynoidae	1.333	0.017	0.149	0.023	Cryptoniscidae	0.833	0.007	*	*
Glyceridae	1.333	0.017	0.003	0.000	Collembola	0.833	0.007	*	*
Terebellidae	1.333	0.017	0.201	0.031	Bryozoa	0.833	0.007	0.005	0.001
Holothuroidea	1.333	0.017	0.066	0.010	Cottidae	0.833	0.007	0.102	0.015
Pyramidellidae	0.911	0.011	0.002	0.000					
Syllidae	0.667	0.008	*	*					

Table D-17 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1990 2nd visit.

1598C					1598				
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Archaeobalanidae	1839.445	26.027	265.674	48.207	Archaeobalanidae	4838.647	58.263	373.112	75.593
Littorinidae	1276.651	18.064	12.932	2.347	Oligochaeta	1289.507	15.527	0.372	0.075
Oligochaeta	978.000	13.838	0.263	0.048	Littorinidae	737.908	8.885	12.534	2.539
Mytilidae	561.367	7.943	234.691	42.585	Balanidae	392.357	4.724	16.721	3.388
Lottidae	424.354	6.004	6.159	1.117	Mytilidae	344.067	4.143	75.699	15.337
Amphipoda	389.333	5.509	0.443	0.080	Amphipoda	208.447	2.510	0.178	0.036
Sigalionidae	235.258	3.329	0.088	0.016	Lottidae	116.392	1.402	5.958	1.207
Chironomidae	204.667	2.896	0.016	0.003	Platyhelminthes	92.300	1.111	0.030	0.006
Isopoda	180.000	2.547	1.657	0.301	Diptera	71.553	0.862	0.465	0.094
Balanidae	146.555	2.074	8.550	1.551	Isopoda	68.220	0.821	0.523	0.106
Nematoda	140.667	1.990	0.010	0.002	Nemertea	56.000	0.674	0.110	0.022
Nemertea	138.000	1.953	0.728	0.132	Nematoda	25.040	0.302	*	*
Platyhelminthes	105.333	1.490	0.161	0.029	Sigalionidae	14.667	0.177	0.003	0.001
Cirratulidae	99.333	1.406	0.169	0.031	Paguridae	13.553	0.163	0.855	0.173
Lacunidae	64.296	0.910	0.180	0.033	Gastropoda	8.667	0.104	0.119	0.024
Cumacea	63.333	0.896	0.009	0.002	Turtoniidae	4.887	0.059	0.014	0.003
Diptera	44.000	0.623	0.155	0.028	Chilopoda	4.373	0.053	0.011	0.002
Paguridae	28.667	0.406	1.281	0.232	Chironomidae	4.220	0.051	*	*
Actiniidae	21.333	0.302	0.079	0.014	Nereidae	4.000	0.048	0.809	0.164
Collembola	20.667	0.292	0.013	0.002	Stichaeidae	2.667	0.032	4.424	0.896
Idoteidae	11.333	0.160	0.584	0.106	Syllidae	2.000	0.024	0.005	0.001
Sabellidae	10.695	0.151	*	*	Cumacea	1.333	0.016	*	*
Caecidae	10.011	0.142	0.003	0.001	Cryptoniscidae	1.333	0.016	0.001	0.000
Turtoniidae	9.281	0.131	0.010	0.002	Myidae	0.667	0.008	0.005	0.001
Nereidae	8.145	0.115	0.837	0.152	Pseudoscorpionida	0.667	0.008	*	*
Tellinidae	7.343	0.104	0.695	0.126	Nucellidae	0.667	0.008	1.631	0.331
Pseudoscorpionida	6.667	0.094	0.010	0.002	Coleoptera	0.667	0.008	*	*
Spionidae	6.225	0.088	0.002	0.000					
Chilopoda	6.000	0.085	0.005	0.001					
Phyllodocidae	5.373	0.076	0.017	0.003					
Amphictenidae	3.490	0.049	0.004	0.001					
Veneridae	3.338	0.047	9.819	1.782					
Asteriidae	3.333	0.047	2.444	0.443					
Balanomorpha	2.667	0.038	0.017	0.003					
Ophelidae	2.117	0.030	0.011	0.002					
Hiatellidae	2.005	0.028	2.629	0.477					
Grapsidae	2.000	0.028	0.329	0.060					
Capitellidae	1.362	0.019	0.012	0.002					
Rissoidae	1.355	0.019	*	*					
Nucellidae	1.333	0.019	0.353	0.064					
Porifera	0.667	0.009	0.079	0.014					
Syllidae	0.667	0.009	*	*					
Acari	0.667	0.009	*	*					

Table D-17 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1990 2nd visit.

846C

846

Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	3106.563	34.152	56.504	18.398	Oligochaeta	2132.295	31.751	0.770	0.295
Littorinidae	1761.588	19.366	15.606	5.081	Archaeobalanidae	1117.203	16.636	68.020	26.104
Mytilidae	1412.032	15.523	198.318	64.572	Littorinidae	885.537	13.186	14.824	5.689
Oligochaeta	1340.556	14.737	0.497	0.162	Amphipoda	773.150	11.513	1.773	0.680
Turtoniidae	213.939	2.352	0.191	0.062	Nematoda	417.039	6.210	0.016	0.006
Platyhelminthes	188.370	2.071	0.211	0.069	Mytilidae	369.046	5.495	138.190	53.032
Nematoda	147.667	1.623	0.002	0.001	Platyhelminthes	205.922	3.066	0.119	0.046
Lottidae	147.337	1.620	3.374	1.099	Isopoda	193.144	2.876	1.904	0.731
Tellinidae	136.439	1.500	11.233	3.657	Lottidae	124.079	1.848	3.763	1.444
Cirratulidae	88.599	0.974	0.183	0.060	Montacutidae	93.333	1.390	0.151	0.058
Rissoidae	66.546	0.732	0.133	0.043	Nemertea	64.072	0.954	0.134	0.051
Sigalionidae	60.162	0.661	0.200	0.065	Turtoniidae	58.518	0.871	0.042	0.016
Balanidae	57.465	0.632	1.591	0.518	Bivalvia	55.556	0.827	0.158	0.061
Nemertea	56.486	0.621	0.313	0.102	Cumacea	42.406	0.631	0.002	0.001
Hiatellidae	42.525	0.467	7.544	2.456	Phyllococidae	30.928	0.461	0.029	0.011
Isopoda	37.814	0.416	0.283	0.092	Sigalionidae	26.667	0.397	0.013	0.005
Amphipoda	29.222	0.321	0.101	0.033	Balanidae	24.097	0.359	0.697	0.267
Paguridae	27.553	0.303	0.972	0.316	Paguridae	21.111	0.314	0.567	0.218
Ophiuridae	19.488	0.214	0.186	0.061	Veneridae	9.444	0.141	27.081	10.393
Insecta	17.222	0.189	0.005	0.002	Tellinidae	8.914	0.133	0.801	0.308
Cumacea	15.111	0.166	0.003	0.001	Rissoidae	8.104	0.121	0.006	0.002
Phyllococidae	14.861	0.163	0.229	0.075	Nereidae	7.222	0.108	0.616	0.236
Pseudoscorpionida	13.553	0.149	0.022	0.007	Caecidae	6.078	0.091	0.001	0.000
Spionidae	12.768	0.140	0.005	0.002	Polynoidae	5.556	0.083	0.009	0.004
Amphictenidae	12.096	0.133	0.389	0.127	Gastropoda	5.000	0.074	0.027	0.010
Chilopoda	8.181	0.090	0.049	0.016	Diptera	5.000	0.074	0.026	0.010
Veneridae	7.982	0.088	7.160	2.331	Chironomidae	4.444	0.066	*	*
Diptera	6.778	0.075	0.015	0.005	Chilopoda	4.072	0.061	0.003	0.001
Montacutidae	6.751	0.074	0.016	0.005	Spionidae	3.889	0.058	0.001	0.000
Sabellidae	5.556	0.061	*	*	Spirorbidae	2.222	0.033	*	*
Copepoda	4.667	0.051	*	*	Pseudoscorpionida	2.222	0.033	*	*
Acari	3.889	0.043	*	*	Grapsidae	1.667	0.025	0.285	0.109
Capitellidae	2.961	0.033	0.044	0.014	Coleoptera	1.667	0.025	*	*
Glyceridae	2.688	0.030	0.019	0.006	Balanomorpha	1.111	0.017	0.002	0.001
Lepidochitonidae	2.667	0.029	0.125	0.041	Idoteidae	1.111	0.017	0.242	0.093
Chironomidae	2.667	0.029	*	*	Collembola	1.111	0.017	*	*
Coleoptera	1.667	0.018	0.002	0.001	Pyramidellidae	1.013	0.015	0.004	0.002
Lacunidae	1.499	0.016	0.003	0.001	Annelida	0.556	0.008	0.016	0.006
Pyramidellidae	1.499	0.016	0.005	0.002	Amphictenidae	0.556	0.008	*	*
Polynoidae	1.344	0.015	0.017	0.005	Myidae	0.556	0.008	0.285	0.109
Nephtyidae	1.344	0.015	1.061	0.345					
Terebellidae	1.344	0.015	0.012	0.004					
Gastropoda	1.111	0.012	0.002	0.001					
Balanomorpha	1.111	0.012	0.020	0.007					
Caecidae	0.750	0.008	*	*					
Nereidae	0.672	0.007	0.018	0.006					
Goniadidae	0.672	0.007	*	*					
Orbiniidae	0.672	0.007	0.015	0.005					
Cancridae	0.667	0.007	0.447	0.146					
Echinoidea	0.667	0.007	0.001	0.000					
Collembola	0.556	0.006	*	*					

Table D-17 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1990 2nd visit.

1650C					1650				
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Oligochaeta	2491.489	20.464	1.236	0.506	Amphipoda	2032.039	52.347	2.928	10.094
Saccocirridae	2177.333	17.884	1.194	0.489	Oligochaeta	935.922	24.110	0.334	1.150
Archaeobalanidae	1561.877	12.829	88.426	36.227	Archaeobalanidae	416.718	10.735	17.050	58.769
Mytilidae	1122.097	9.216	87.321	35.774	Littorinidae	233.793	6.023	3.633	12.522
Littorinidae	1111.627	9.130	18.878	7.734	Mytilidae	59.444	1.531	2.567	8.847
Protodrilidae	833.333	6.845	0.075	0.031	Balanidae	51.616	1.330	1.366	4.709
Caecidae	473.615	3.890	0.324	0.133	Platyhelminthes	42.222	1.088	0.012	0.042
Nematoda	438.680	3.603	0.022	0.009	Isopoda	39.444	1.016	0.225	0.776
Amphipoda	283.776	2.331	1.650	0.676	Lottidae	38.429	0.990	0.844	2.910
Lottidae	265.245	2.179	5.673	2.324	Nematoda	18.333	0.472	*	*
Platyhelminthes	250.204	2.055	0.126	0.052	Nemertea	6.111	0.157	0.014	0.048
Nemertea	191.662	1.574	0.919	0.377	Collembola	2.222	0.057	*	*
Phyllodocidae	145.111	1.192	0.204	0.084	Sigalionidae	1.667	0.043	*	*
Isopoda	136.667	1.123	0.787	0.323	Sigalionidae	1.111	0.029	*	*
Balanidae	124.450	1.022	2.445	1.002	Saccocirridae	0.556	0.014	*	*
Hiatellidae	91.752	0.754	1.374	0.563	Turtoniidae	0.556	0.014	*	*
Lacunidae	84.066	0.690	0.104	0.042	Balanomorpha	0.556	0.014	0.008	0.029
Turtoniidae	63.556	0.522	0.075	0.031	Paguridae	0.556	0.014	0.028	0.096
Chironomidae	61.222	0.503	0.007	0.003	Diptera	0.556	0.014	0.002	0.008
Syllidae	41.333	0.339	0.034	0.014					
Cirratulidae	35.220	0.289	0.057	0.023					
Trochidae	32.824	0.270	0.013	0.005					
Spionidae	31.776	0.261	0.013	0.005					
Paguridae	18.000	0.148	0.311	0.127					
Copepoda	15.556	0.128	*	*					
Sigalionidae	13.333	0.110	0.003	0.001					
Rissoidae	9.151	0.075	0.010	0.004					
Foraminiferida	8.889	0.073	0.002	0.001					
Pseudoscorpionida	8.440	0.069	*	*					
Montacutidae	6.959	0.057	0.018	0.007					
Cryptoniscidae	6.667	0.055	0.038	0.016					
Diptera	6.222	0.051	0.011	0.005					
Nucellidae	5.232	0.043	2.700	1.106					
Orbinidae	5.000	0.041	0.046	0.019					
Spirorbidae	4.887	0.040	0.001	0.000					
Cumacea	3.333	0.027	*	*					
Veneridae	2.851	0.023	29.616	12.133					
Capitellidae	2.222	0.018	0.004	0.002					
Stichaeidae	2.222	0.018	0.122	0.050					
Chilopoda	1.222	0.010	0.003	0.001					
Idoteidae	1.111	0.009	0.006	0.002					
Balanomorpha	0.667	0.005	0.001	0.000					
Insecta	0.667	0.005	*	*					
Collembola	0.667	0.005	*	*					
Nereidae	0.556	0.005	0.007	0.003					
Glyceridae	0.556	0.005	0.004	0.002					
Sabellidae	0.556	0.005	*	*					
Coleoptera	0.556	0.005	*	*					
Asteriidae	0.556	0.005	0.230	0.094					

Table D-18. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1991. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

506C					506				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
Oligochaeta	1297.411	22.397	0.606	0.183	Oligochaeta	2725.833	27.588	1.954	0.315
Littorinidae	1036.251	17.889	18.081	5.452	Mytilidae	2653.333	26.854	509.071	82.195
Mytilidae	806.024	13.915	140.945	42.496	Littorinidae	1812.225	18.341	37.390	6.037
Archaeobalanidae	758.458	13.093	127.277	38.375	Amphipoda	675.275	6.834	1.762	0.284
Cirratulidae	457.772	7.903	0.924	0.279	Balanidae	590.342	5.975	15.905	2.568
Turtoniidae	265.695	4.587	0.256	0.077	Archaeobalanidae	399.658	4.045	36.766	5.936
Nematoda	244.633	4.223	*	*	Lottiidae	348.883	3.531	10.971	1.771
Lottiidae	170.583	2.945	7.328	2.209	Platyhelminthes	183.608	1.858	0.292	0.047
Balanidae	125.053	2.159	16.113	4.858	Nematoda	118.617	1.201	*	*
Amphipoda	122.961	2.123	0.111	0.033	Turtoniidae	62.500	0.633	0.062	0.010
Platyhelminthes	80.556	1.391	0.064	0.019	Paguridae	54.167	0.548	0.781	0.126
Sigalionidae	73.144	1.263	0.009	0.003	Trochidae	48.333	0.489	1.093	0.177
Syllidae	48.706	0.841	0.063	0.019	Nemertea	41.108	0.416	2.060	0.333
Nemertea	37.406	0.646	0.183	0.055	Diptera	33.472	0.339	0.143	0.023
Sabellidae	36.641	0.633	*	*	Sigalionidae	31.040	0.314	0.004	0.001
Tanaidacea	35.000	0.604	0.015	0.005	Caecidae	20.000	0.202	*	*
Isopoda	32.406	0.559	0.200	0.060	Syllidae	18.086	0.183	0.026	0.004
Cumacea	27.222	0.470	0.006	0.002	Chironomidae	16.253	0.164	*	*
Copepoda	22.222	0.384	0.001	0.000	Lacunidae	10.558	0.107	0.279	0.045
Chironomidae	16.478	0.284	*	*	Cirratulidae	10.270	0.104	0.163	0.026
Chilopoda	15.183	0.262	0.020	0.006	Spirorbidae	7.143	0.072	*	*
Diptera	11.850	0.205	0.011	0.003	Phyllodocidae	5.135	0.052	0.013	0.002
Tellinidae	9.324	0.161	0.483	0.146	Isopoda	5.000	0.051	0.047	0.008
Paguridae	8.889	0.153	0.198	0.060	Collembola	2.225	0.023	*	*
Stichaeidae	7.039	0.122	0.218	0.066	Rissoidae	1.667	0.017	0.001	0.000
Rissoidae	6.852	0.118	0.007	0.002	Idoteidae	1.667	0.017	0.087	0.014
Spirorbidae	6.128	0.106	0.003	0.001	Nereidae	0.833	0.008	*	*
Onchidiidae	5.331	0.092	0.086	0.026	Lepidochitonidae	0.833	0.008	0.297	0.048
Orbiniidae	5.009	0.086	0.004	0.001	Arachnida	0.833	0.008	0.001	0.000
Collembola	4.072	0.070	*	*	Asteriidae	0.833	0.008	0.114	0.018
Nereidae	3.517	0.061	0.071	0.021	Stichaeidae	0.833	0.008	0.070	0.011
Hiatellidae	3.446	0.059	0.042	0.013					
Veneridae	3.383	0.058	18.326	5.525					
Porifera	2.961	0.051	*	*					
Pseudoscorpionida	2.222	0.038	0.007	0.002					
Acari	1.111	0.019	0.001	0.000					
Trochidae	0.617	0.011	0.010	0.003					
Terebellidae	0.556	0.010	*	*					
Arachnida	0.556	0.010	*	*					

Table D-18 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1991.

1598C					1598				
TAXA	ABUNDANCE (no m ⁻²)	(%)	BIOMASS (g m ⁻²)	(%)	TAXA	ABUNDANCE (no m ⁻²)	(%)	BIOMASS (g m ⁻²)	(%)
Oligochaeta	1509.433	23.834	0.701	0.258	Archaeobalanidae	1977.900	37.367	181.176	51.814
Littorinidae	1187.912	18.757	11.573	4.257	Littorinidae	1299.359	24.548	15.460	4.422
Nematoda	1166.853	18.425	0.010	0.004	Oligochaeta	832.253	15.723	0.345	0.099
Archaeobalanidae	769.939	12.157	78.553	28.897	Balanidae	323.626	6.114	13.086	3.742
Mytilidae	557.948	8.810	149.892	55.141	Mytilidae	243.427	4.599	132.843	37.991
Balanidae	222.581	3.515	19.923	7.329	Platyhelminthes	146.667	2.771	0.344	0.096
Lottidae	205.644	3.247	3.239	1.192	Amphipoda	135.047	2.551	0.195	0.056
Amphipoda	121.820	1.924	0.089	0.033	Lottidae	105.212	1.988	5.540	1.584
Platyhelminthes	118.567	1.872	0.247	0.091	Caecidae	103.620	1.958	0.030	0.009
Nemertea	65.273	1.031	1.067	0.393	Nematoda	33.427	0.632	*	*
Isopoda	58.220	0.919	0.033	0.012	Chilopoda	29.780	0.563	0.051	0.015
Cumacea	57.133	0.902	0.008	0.003	Sigalionidae	28.953	0.547	0.009	0.003
Turtoniidae	53.658	0.847	0.048	0.018	Isopoda	8.860	0.167	0.013	0.004
Rissoidae	37.637	0.594	0.017	0.006	Collembola	7.780	0.147	*	*
Diptera	36.487	0.576	0.123	0.045	Diptera	4.667	0.088	0.051	0.015
Sigalionidae	30.500	0.482	0.006	0.002	Nemertea	3.713	0.070	0.030	0.009
Capitellidae	27.428	0.433	0.028	0.010	Chironomidae	2.667	0.050	0.002	0.001
Caecidae	16.352	0.258	0.034	0.012	Turtoniidae	2.000	0.038	0.001	0.000
Cirratulidae	14.000	0.221	0.011	0.004	Veneridae	1.527	0.029	0.465	0.133
Asteriidae	12.500	0.197	2.114	0.778	Paguridae	1.333	0.025	0.023	0.007
Phyllodoctidae	11.667	0.184	0.054	0.020	Coleoptera	1.333	0.025	*	*
Chironomidae	8.333	0.132	0.003	0.001					
Chilopoda	6.667	0.105	0.010	0.004					
Paguridae	5.833	0.092	0.020	0.007					
Spionidae	4.191	0.066	0.017	0.006					
Acari	4.167	0.066	*	*					
Orbiniidae	3.333	0.053	0.003	0.001					
Holothuroidea	3.333	0.053	0.037	0.014					
Collembola	2.667	0.042	0.003	0.001					
Veneridae	2.500	0.039	1.903	0.700					
Nucellidae	1.734	0.027	0.658	0.242					
Grapsidae	1.667	0.026	0.110	0.040					
Gastropoda	1.067	0.017	0.002	0.001					
Balanomorpha	1.067	0.017	0.005	0.002					
Nereidae	0.858	0.014	0.050	0.018					
Goniadidae	0.858	0.014	0.022	0.008					
Tellinidae	0.833	0.013	0.887	0.326					
Hiatellidae	0.833	0.013	0.002	0.001					
Copepoda	0.833	0.013	*	*					
Stichaeidae	0.833	0.013	0.335	0.123					

Table D-18 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1991.

846C

846

Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	1769.585	27.344	121.414	44.833	Oligochaeta	4007.522	34.266	1.169	0.349
Littorinidae	1427.681	22.061	13.445	4.965	Littorinidae	2710.606	23.177	19.143	5.712
Mytilidae	896.634	13.855	109.250	40.341	Nematoda	1445.789	12.362	0.037	0.011
Oligochaeta	630.111	9.737	0.277	0.102	Archaeobalanidae	1391.798	11.900	126.315	37.693
Lottiidae	225.557	3.485	4.468	1.650	Turtoniidae	472.435	4.040	0.459	0.137
Cumacea	223.483	3.453	0.037	0.014	Mytilidae	437.829	3.744	168.968	50.420
Tellinidae	203.798	3.149	12.804	4.728	Lottiidae	281.654	2.408	4.476	1.336
Nematoda	161.111	2.490	0.003	0.001	Platyhelminthes	233.850	2.000	0.215	0.064
Isopoda	153.556	2.373	1.997	0.737	Amphipoda	106.628	0.912	0.902	0.269
Platyhelminthes	138.794	2.145	0.250	0.092	Sigalionidae	103.706	0.887	0.083	0.025
Rissoidae	126.826	1.960	0.239	0.088	Copepoda	97.778	0.836	0.009	0.003
Amphipoda	111.889	1.729	0.309	0.114	Balanidae	71.124	0.608	2.108	0.629
Cirratulidae	98.249	1.518	0.128	0.047	Nemertea	59.256	0.507	0.234	0.070
Turtoniidae	81.544	1.260	0.089	0.033	Cumacea	57.778	0.494	0.003	0.001
Collembola	46.483	0.718	*	*	Phyllococidae	56.294	0.481	0.089	0.027
Nemertea	33.889	0.524	0.989	0.365	Isopoda	49.989	0.427	0.330	0.098
Balanidae	22.635	0.350	0.929	0.343	Rissoidae	26.270	0.225	0.032	0.009
Chironomidae	22.056	0.341	0.009	0.003	Nereidae	22.961	0.196	4.137	1.235
Paguridae	19.850	0.307	0.120	0.044	Chironomidae	15.111	0.129	0.005	0.002
Hiattellidae	17.347	0.268	3.292	1.215	Tellinidae	12.254	0.105	0.580	0.173
Diptera	15.928	0.246	0.030	0.011	Holothuroidea	8.889	0.076	4.486	1.339
Sabellidae	8.594	0.133	*	*	Opisthobranchia	5.252	0.045	0.092	0.027
Chilopoda	6.294	0.097	0.003	0.001	Diptera	3.517	0.030	0.036	0.011
Phyllococidae	5.633	0.087	0.171	0.063	Capitellidae	2.961	0.025	0.027	0.008
Nereidae	4.739	0.073	0.332	0.123	Collembola	2.961	0.025	*	*
Pseudoscorpionida	4.444	0.069	0.011	0.004	Chilopoda	2.961	0.025	0.009	0.003
Sigalionidae	3.594	0.056	*	*	Nucellidae	2.573	0.022	0.895	0.268
Spionidae	3.039	0.047	0.017	0.006	Coleoptera	2.222	0.019	*	*
Trochidae	2.998	0.046	0.098	0.036	Lacunidae	1.111	0.009	0.015	0.004
Pyramidellidae	2.998	0.046	0.009	0.003	Grapsidae	1.111	0.009	0.209	0.062
Balanomorpha	1.111	0.017	0.031	0.011	Hiattellidae	0.559	0.005	0.012	0.004
Myidae	0.556	0.009	0.020	0.007	Polynoidae	0.556	0.005	0.041	0.012
Idoteidae	0.556	0.009	0.043	0.016					

Table D-18 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, coarse textured sites, 1991.

1650C					1650				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	2085.317	28.362	1.011	0.271	Oligochaeta	1870.183	79.059	1.362	7.726
Littorinidae	1565.198	21.288	36.920	9.912	Littorinidae	166.667	7.046	1.465	8.305
Archaeobalanidae	1338.118	18.199	115.719	31.067	Archaeobalanidae	78.040	3.299	9.159	51.938
Mytilidae	1091.661	14.847	189.135	50.776	Platyhelminthes	69.439	2.935	0.011	0.064
Lottidae	376.137	5.116	8.768	2.354	Isopoda	47.406	2.004	0.021	0.117
Platyhelminthes	303.517	4.128	0.345	0.093	Balanidae	45.849	1.938	2.137	12.118
Balanidae	215.187	2.927	5.448	1.463	Amphipoda	29.628	1.252	0.418	2.369
Nematoda	74.189	1.009	*	*	Mytilidae	17.778	0.752	2.404	13.634
Amphipoda	64.739	0.881	0.673	0.181	Acari	11.850	0.501	*	*
Turtoniidae	41.483	0.564	0.029	0.008	Nematoda	8.150	0.345	*	*
Isopoda	29.111	0.396	0.380	0.102	Nemertea	6.111	0.258	0.386	2.187
Paguridae	26.294	0.358	0.606	0.163	Lottidae	4.444	0.188	0.260	1.474
Syllidae	21.699	0.295	0.192	0.051	Lacunidae	2.961	0.125	*	*
Nemertea	18.517	0.252	0.380	0.102	Coleoptera	2.961	0.125	*	*
Chironomidae	15.294	0.208	0.001	0.000	Diptera	2.961	0.125	0.012	0.067
Pseudoscorpionida	15.144	0.206	0.026	0.007	Syllidae	0.556	0.024	*	*
Collembola	13.628	0.185	*	*	Collembola	0.556	0.024	*	*
Veneridae	7.406	0.101	10.182	2.733					
Spionidae	5.294	0.072	0.001	0.000					
Copepoda	5.000	0.068	*	*					
Acari	4.628	0.063	*	*					
Hiatellidae	4.444	0.060	0.018	0.005					
Chilopoda	4.000	0.054	0.001	0.000					
Ostracoda	3.889	0.053	*	*					
Diptera	3.444	0.047	0.001	0.000					
Lacunidae	3.371	0.046	0.067	0.018					
Idoteidae	3.333	0.045	0.387	0.104					
Sigalionidae	1.732	0.024	*	*					
Montacutidae	1.667	0.023	0.004	0.001					
Phyllodoctidae	1.177	0.016	0.013	0.004					
Cirratulidae	1.177	0.016	*	*					
Nucellidae	1.116	0.015	1.460	0.392					
Cumacea	1.111	0.015	*	*					
Cryptoniscidae	1.111	0.015	0.003	0.001					
Asteriidae	1.111	0.015	0.434	0.116					
Sabellidae	0.588	0.008	*	*					
Actiniidae	0.556	0.008	0.276	0.074					
Nereidae	0.556	0.008	0.001	0.000					
Stichaeidae	0.556	0.008	0.004	0.001					

Table D-19. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, coarse textured sites, 1989. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

Control Site Not Sampled			51091		
Taxa	Abundance	Biomass	Taxa	Abundance	Biomass
			Oligochaeta	1984.289	26.030
			Littorinidae	1183.868	15.530
			Platyhelminthes	1097.456	14.397
			Mytilidae	1033.503	13.558
			Archaeobalanidae	818.022	10.731
			Balanidae	623.164	8.175
			Amphipoda	609.044	7.990
			Lottidae	137.990	1.810
			Nematoda	21.900	0.287
			Collembola	18.889	0.248
			Copepoda	17.778	0.233
			Nereidae	15.711	0.206
			Diptera	15.556	0.204
			Insecta	8.889	0.117
			Chironomidae	6.344	0.083
			Sigalionidae	5.556	0.073
			Isopoda	4.444	0.058
			Paguridae	4.444	0.058
			Turtoniidae	3.796	0.050
			Nemertea	3.333	0.044
			Arachnida	2.222	0.029
			Balanomorpha	2.222	0.029
			Acari	1.267	0.017
			Porifera	1.111	0.015
			Syllidae	1.111	0.015
			Bryozoa	1.111	0.015
					0.599
					60.077
					0.357
					61.007
					104.255
					37.344
					14.237
					2.134
					8.133
					0.001
					0.004
					*
					1.163
					0.117
					0.022
					*
					0.002
					0.040
					0.538
					0.010
					0.006
					*
					0.008
					*
					0.941
					*
					0.012
					0.004

Table D-19 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, coarse textured sites, 1989.

Control Site Not Sampled				50226					
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
					Balanidae	1672.973	43.987	73.803	73.174
					Amphipoda	820.000	21.560	2.497	2.475
					Oligochaeta	495.000	13.015	0.932	0.924
					Acan	260.000	6.836	*	*
					Archaeobalanidae	222.860	5.860	13.452	13.338
					Mytilidae	180.000	4.733	7.058	6.997
					Platyhelminthes	69.167	1.819	0.073	0.072
					Littorinidae	30.000	0.789	2.925	2.900
					Lottiidae	11.667	0.307	0.038	0.038
					Pseudoscorpionida	11.667	0.307	0.005	0.005
					Nematoda	10.000	0.263	*	*
					Insecta	8.333	0.219	0.002	0.002
					Chironomidae	5.000	0.131	*	*
					Balanomorpha	2.500	0.066	0.075	0.074
					Isopoda	2.500	0.066	*	*
					Chilopoda	1.667	0.044	*	*

Table D-20. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, coarse textured sites, 1990 1st visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

50389C

50389

Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	1161.111	33.710	1.073	0.333	Turtoniidae	2257.631	29.280	2.765	1.554
Mytilidae	1078.889	31.323	269.362	83.537	Oligochaeta	903.889	11.723	0.409	0.230
Amphipoda	377.778	10.968	0.903	0.280	Littorinidae	718.919	9.324	24.923	14.006
Littorinidae	277.042	8.043	6.431	1.994	Cirratulidae	681.211	8.835	1.166	0.655
Balanidae	216.865	6.296	35.968	11.155	Isopoda	453.889	5.887	1.426	0.801
Lottidae	162.957	4.731	1.676	0.520	Nematoda	381.667	4.950	0.006	0.003
Sigalionidae	41.111	1.194	0.011	0.003	Cumacea	350.000	4.539	0.142	0.080
Isopoda	25.000	0.726	0.054	0.017	Mytilidae	311.253	4.037	72.890	40.961
Archaeobalanidae	19.802	0.575	0.919	0.285	Archaeobalanidae	289.170	3.750	31.319	17.599
Cirratulidae	18.333	0.532	0.185	0.057	Sigalionidae	280.047	3.632	0.140	0.079
Platyhelminthes	17.778	0.516	0.021	0.006	Platyhelminthes	245.556	3.185	0.248	0.140
Onchidiidae	13.889	0.403	0.111	0.034	Chironomidae	134.444	1.744	0.044	0.025
Nemertea	7.778	0.226	0.051	0.016	Amphipoda	102.222	1.326	0.557	0.313
Acari	3.889	0.113	0.003	0.001	Balanidae	85.830	1.113	19.724	11.084
Nematoda	3.333	0.097	*	*	Lottidae	77.937	1.011	4.606	2.588
Pseudoscorpionida	2.778	0.081	0.005	0.002	Capitellidae	76.212	0.988	0.194	0.109
Turtoniidae	2.222	0.065	*	*	Phyllodocidae	61.298	0.795	0.078	0.044
Cumacea	1.667	0.048	*	*	Nemertea	53.333	0.692	0.207	0.116
Paguridae	1.667	0.048	0.097	0.030	Lacunidae	45.682	0.592	0.267	0.150
Coleoptera	1.667	0.048	0.001	0.000	Sabellidae	44.132	0.572	0.007	0.004
Syllidae	1.111	0.032	0.002	0.001	Spionidae	33.994	0.441	0.015	0.008
Nereidae	1.111	0.032	*	*	Diptera	32.778	0.425	0.015	0.008
Sabellidae	1.111	0.032	*	*	Coleoptera	14.444	0.187	*	*
Saccocirridae	1.111	0.032	0.002	0.001	Pseudoscorpionida	12.222	0.159	0.011	0.006
Nucellidae	0.557	0.016	0.003	0.001	Acari	11.111	0.144	0.004	0.002
Spionidae	0.556	0.016	*	*	Rissoidae	10.239	0.133	0.013	0.007
Gastropoda	0.556	0.016	0.004	0.001	Syllidae	7.479	0.097	0.007	0.004
Veneridae	0.556	0.016	0.142	0.044	Nereidae	5.573	0.072	0.168	0.094
Collembola	0.556	0.016	*	*	Collembola	5.000	0.065	*	*
Chilopoda	0.556	0.016	0.002	0.001	Orbiniidae	3.925	0.051	0.061	0.034
Bryozoa	0.556	0.016	*	*	Insecta	3.889	0.050	0.001	0.001
Asteriidae	0.556	0.016	5.419	1.681	Polynoidae	3.347	0.043	0.008	0.004
					Copepoda	3.333	0.043	*	*
					Tellinidae	2.585	0.034	0.695	0.391
					Myidae	1.309	0.017	14.814	8.325
					Paguridae	1.111	0.014	0.081	0.046
					Nephtyidae	0.558	0.007	0.039	0.022
					Sphaerodoridae	0.556	0.007	*	*
					Bivalvia	0.556	0.007	*	*
					Idoteidae	0.556	0.007	0.003	0.002
					Chilopoda	0.556	0.007	0.002	0.001
					Echiuridae	0.556	0.007	0.894	0.502
					Holothuroidea	0.556	0.007	0.003	0.002

Table D-20 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, coarse textured sites, 1990 1st visit.

51091C					51091				
TAXA	Abundance		Biomass		TAXA	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	637.222	27.103	0.637	5.477	Oligochaeta	31267.334	94.620	20.962	68.454
Saccocirridae	511.111	21.739	2.787	23.953	Amphipoda	1118.111	3.384	1.912	6.244
Amphipoda	368.889	15.690	3.269	28.093	Nematoda	349.556	1.058	0.001	0.003
Collembola	263.867	11.223	0.003	0.029	Diptera	191.667	0.580	0.394	1.286
Nematoda	247.778	10.539	0.006	0.056	Littorinidae	23.222	0.070	0.464	1.514
Littorinidae	104.444	4.442	4.656	40.014	Acari	18.333	0.055	0.001	0.004
Syllidae	89.444	3.804	0.064	0.546	Platyhelminthes	17.333	0.052	*	*
Cirratulidae	53.333	2.268	0.065	0.559	Balanidae	15.333	0.046	2.955	9.651
Platyhelminthes	15.000	0.638	*	*	Mytilidae	13.444	0.041	3.220	10.514
Nereidae	15.000	0.638	0.003	0.028	Archaeobalanidae	11.333	0.034	0.577	1.883
Turtoniidae	11.111	0.473	0.037	0.315	Nemertea	9.889	0.030	0.008	0.025
Mytilidae	9.444	0.402	0.049	0.425	Bryozoa	3.333	0.010	0.075	0.245
Acari	8.889	0.378	0.005	0.040	Coleoptera	2.333	0.007	0.003	0.011
Nemertea	8.333	0.354	0.038	0.330	Isopoda	2.222	0.007	0.007	0.022
Archaeobalanidae	2.222	0.095	0.008	0.071	Syllidae	0.667	0.002	0.008	0.026
Diptera	1.133	0.048	*	*	Gastropoda	0.556	0.002	0.036	0.116
Arachnida	1.111	0.047	0.001	0.009	Onchidiidae	0.556	0.002	*	*
Lacunidae	0.556	0.024	0.002	0.019					
Astartidae	0.556	0.024	0.004	0.034					
Ostracoda	0.556	0.024	*	*					
Coleoptera	0.556	0.024	*	*					
Chironomidae	0.556	0.024	*	*					

Table D-20 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, coarse textured sites, 1990 1st visit.

62802C					50226				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	1600.277	35.694	46.632	70.296	Oligochaeta	2237.778	30.557	1.189	0.208
Cirratulidae	739.947	16.504	1.268	1.911	Amphipoda	1092.778	14.922	4.700	0.821
Oligochaeta	637.778	14.226	0.771	1.163	Chironomidae	868.333	11.857	0.340	0.059
Platyhelminthes	215.000	4.796	0.213	0.322	Copepoda	775.556	10.590	0.072	0.013
Nemertea	180.000	4.015	0.726	1.094	Isopoda	453.889	6.198	8.420	1.470
Caecidae	153.333	3.420	0.012	0.018	Archaeobalanidae	432.418	5.905	49.703	8.680
Nematoda	126.111	2.813	0.004	0.006	Balanidae	403.138	5.505	39.717	6.936
Mytilidae	121.176	2.703	3.750	5.653	Mytilidae	275.000	3.755	438.471	76.572
Chironomidae	101.732	2.269	0.045	0.068	Lottidae	214.339	2.927	9.003	1.572
Littorinidae	88.870	1.982	3.683	5.552	Littorinidae	157.329	2.148	12.694	2.217
Balanidae	70.279	1.568	6.897	10.397	Nematoda	145.556	1.988	0.003	0.000
Acari	61.667	1.375	0.050	0.075	Platyhelminthes	43.889	0.599	0.043	0.007
Lottidae	60.019	1.339	0.670	1.010	Nereidae	43.889	0.599	5.486	0.958
Sabellidae	53.891	1.202	0.001	0.001	Ostracoda	40.000	0.546	*	*
Phyllodocidae	46.149	1.029	0.307	0.462	Sigalionidae	32.222	0.440	0.008	0.001
Collembola	42.704	0.953	0.003	0.004	Sabellidae	27.222	0.372	0.001	0.000
Sigalionidae	36.123	0.806	0.009	0.014	Idoteidae	16.111	0.220	1.514	0.264
Isopoda	29.444	0.657	0.122	0.183	Acari	13.333	0.182	0.004	0.001
Turtoniidae	25.986	0.580	0.027	0.040	Cumacea	9.444	0.129	*	*
Tellinidae	25.617	0.571	0.855	1.289	Tellinidae	8.889	0.121	0.351	0.061
Amphipoda	20.556	0.458	0.165	0.249	Cirratulidae	7.222	0.099	0.011	0.002
Pseudoscorpionida	20.000	0.446	0.031	0.047	Paguridae	6.667	0.091	0.108	0.019
Coleoptera	11.119	0.248	0.004	0.006	Coleoptera	4.444	0.061	0.001	0.000
Diptera	3.889	0.087	0.006	0.009	Diptera	4.444	0.061	0.008	0.001
Spionidae	2.222	0.050	0.026	0.039	Pseudoscorpionida	3.889	0.053	0.017	0.003
Cumacea	2.222	0.050	0.003	0.004	Nemertea	1.667	0.023	0.155	0.027
Chilopoda	2.222	0.050	0.036	0.054	Actinidae	0.556	0.008	0.568	0.099
Ostracoda	1.667	0.037	*	*	Phyllodocidae	0.556	0.008	*	*
Terebellidae	1.114	0.025	0.005	0.008	Caecidae	0.556	0.008	*	*
Syllidae	0.556	0.012	0.004	0.006	Insecta	0.556	0.008	0.002	0.000
Copepoda	0.556	0.012	0.001	0.002	Collembola	0.556	0.008	*	*
Paguridae	0.556	0.012	0.010	0.015	Chilopoda	0.556	0.008	0.006	0.001
Bryozoa	0.556	0.012	0.003	0.004	Pholidae	0.556	0.008	0.030	0.005

Table D-21. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, coarse textured sites, 1990 2nd visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

50383<					50389				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	2095.555	36.420	0.801	0.604	Cirratulidae	2863.608	31.156	3.221	1.228
Mytilidae	1907.778	33.156	106.975	80.697	Turtoniidae	1630.806	17.743	2.199	0.838
Amphipoda	449.444	7.811	0.917	0.692	Oligochaeta	1097.222	11.938	0.413	0.158
Balanidae	437.758	7.608	6.720	5.069	Littorinidae	901.659	9.810	38.395	14.632
Littorinidae	211.532	3.676	3.525	2.659	Balanidae	516.849	5.623	53.668	20.452
Littorinidae	150.880	2.622	5.871	4.429	Archaeobalanidae	466.484	5.075	50.406	19.209
Saccociridae	147.235	2.559	0.123	0.093	Mytilidae	437.864	4.764	104.036	39.647
Cirratulidae	117.545	2.043	0.202	0.153	Amphipoda	323.889	3.524	1.095	0.417
Archaeobalanidae	41.131	0.715	1.690	1.275	Mytilidae	164.152	1.786	0.078	0.030
Nematoda	37.778	0.657	*	*	Platyhelminthes	155.000	1.686	0.124	0.047
Nemertea	36.667	0.637	0.384	0.290	Isopoda	149.444	1.626	0.925	0.352
Platyhelminthes	29.444	0.512	0.040	0.030	Nematoda	132.222	1.439	0.003	0.001
Sigalionidae	18.928	0.329	0.002	0.002	Littorinidae	73.786	0.803	5.880	2.241
Onchidiidae	16.667	0.290	0.184	0.139	Nemertea	68.333	0.743	0.133	0.051
Lacunidae	14.628	0.254	0.066	0.050	Sabellidae	60.961	0.663	0.009	0.004
Isopoda	11.111	0.193	0.012	0.009	Capitellidae	43.388	0.472	0.094	0.036
Cryptoniscidae	4.444	0.077	0.004	0.003	Phyllodocidae	18.361	0.200	0.049	0.019
Coleoptera	4.074	0.071	0.002	0.002	Diptera	16.111	0.175	0.033	0.013
Chironomidae	3.148	0.055	*	*	Spionidae	11.743	0.128	0.007	0.003
Paguridae	2.778	0.048	0.303	0.229	Pseudoscorpionida	11.111	0.121	0.006	0.002
Syllidae	2.274	0.040	0.008	0.006	Paguridae	10.556	0.115	0.660	0.252
Phyllodocidae	1.706	0.030	0.001	0.001	Tellinidae	9.662	0.105	0.747	0.285
Spionidae	1.706	0.030	0.002	0.001	Orbiniidae	8.891	0.097	0.039	0.015
Sabellidae	1.706	0.030	0.001	0.000	Ostracoda	4.444	0.048	0.004	0.002
Acari	1.667	0.029	*	*	Rissoidae	3.444	0.037	0.011	0.004
Buccinidae	1.184	0.021	1.458	1.100	Cumacea	3.333	0.036	*	*
Nucellidae	1.184	0.021	3.132	2.363	Nereidae	2.224	0.024	0.059	0.022
Pseudoscorpionida	1.111	0.019	0.001	0.001	Syllidae	1.672	0.018	*	*
Trochidae	0.592	0.010	0.001	0.000	Chironomidae	1.111	0.012	*	*
Nereidae	0.568	0.010	0.001	0.001	Polychaeta	0.556	0.006	*	*
Gastropoda	0.556	0.010	*	*	Insecta	0.556	0.006	0.002	0.001
Turtoniidae	0.556	0.010	*	*	Collembola	0.556	0.006	*	*
Idoteidae	0.556	0.010	0.136	0.103	Chilopoda	0.556	0.006	0.001	0.000
					Priapulida	0.556	0.006	0.111	0.042

Table D-21 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, coarse textured sites, 1990 2nd visit.

51091C					51091				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	1235.333	41.636	1.139	4.878	Oligochaeta	8856.110	61.415	3.379	8.913
Amphipoda	749.000	25.244	13.588	58.215	Sigalionidae	2769.260	19.204	*	*
Nematoda	393.111	13.249	0.002	0.006	Amphipoda	1221.111	8.468	6.144	16.206
Littorinidae	159.444	5.374	5.641	24.170	Platyhelminthes	826.111	5.729	0.153	0.403
Diptera	154.556	5.209	0.249	1.069	Balanidae	322.714	2.238	16.836	44.408
Collembola	80.333	2.708	*	*	Archaeobalanidae	133.952	0.929	9.002	23.745
Syllidae	73.222	2.468	0.048	0.206	Nematoda	96.667	0.670	*	*
Nemertea	28.000	0.944	0.043	0.183	Nemertea	35.556	0.247	0.031	0.082
Cirratulidae	24.000	0.809	0.038	0.163	Littorinidae	35.000	0.243	1.856	4.895
Archaeobalanidae	20.000	0.674	1.396	5.981	Spionidae	34.444	0.239	0.001	0.002
Mytilidae	17.444	0.588	0.391	1.677	Mytilidae	32.222	0.223	0.338	0.891
Acari	10.000	0.337	0.004	0.017	Collembola	13.333	0.092	*	*
Balanidae	9.333	0.315	0.792	3.393	Syllidae	12.778	0.089	0.017	0.044
Turtoniidae	7.222	0.243	0.005	0.023	Polychaeta	10.000	0.069	0.006	0.016
Platyhelminthes	2.000	0.067	*	*	Hesionidae	6.667	0.046	0.002	0.004
Coleoptera	1.667	0.056	*	*	Chironomidae	3.889	0.027	*	*
Arachnida	1.111	0.037	0.003	0.014	Lotiidae	2.222	0.015	0.078	0.207
Hiattellidae	0.667	0.022	*	*	Isopoda	2.222	0.015	0.004	0.012
Polychaeta	0.556	0.019	0.001	0.005	Nereidae	1.296	0.009	0.064	0.169
					Saccocirridae	1.111	0.008	*	*
					Turtoniidae	1.111	0.008	0.001	0.003
					Coleoptera	1.111	0.008	*	*
					Acari	0.556	0.004	*	*
					Diptera	0.556	0.004	*	*

Table D-21 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, coarse textured sites, 1990 2nd visit.

62802C					50226				
TAXA	Abundance (no m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	TAXA	Abundance (no m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Archaeobalanidae	2829.896	52.395	53.250	64.290	Oligochaeta	1545.776	29.330	0.744	0.166
Cirratulidae	714.597	13.231	1.107	1.336	Archaeobalanidae	1382.530	26.232	61.846	13.779
Collembola	252.222	4.670	0.001	0.001	Amphipoda	733.333	13.914	3.224	0.718
Platyhelminthes	230.556	4.269	0.241	0.290	Balanidae	423.467	8.035	22.758	5.071
Oligochaeta	217.222	4.022	0.055	0.066	Mytilidae	290.556	5.513	327.622	72.995
Turtoniidae	199.444	3.693	0.381	0.460	Nematoda	201.669	3.826	*	*
Mytilidae	181.667	3.364	12.521	15.117	Littorinidae	189.282	3.591	17.497	3.898
Nematoda	134.444	2.489	*	*	Isopoda	180.852	3.431	1.513	0.337
Littorinidae	123.272	2.282	6.762	8.164	Loftiidae	151.262	2.870	9.689	2.159
Nemertea	111.111	2.057	0.356	0.430	Platyhelminthes	77.372	1.468	0.044	0.010
Balanidae	97.326	1.802	4.806	5.802	Pseudoscorpionida	16.483	0.313	0.011	0.002
Sigalionidae	68.591	1.270	0.014	0.016	Nereidae	14.889	0.283	2.151	0.479
Caecidae	67.778	1.255	0.002	0.003	Sigalionidae	14.000	0.266	0.001	0.000
Lottiidae	27.839	0.515	1.143	1.380	Chironomidae	9.447	0.179	*	*
Phyllodoceidae	27.353	0.506	0.143	0.172	Paguridae	8.667	0.164	0.172	0.038
Pseudoscorpionida	26.667	0.494	0.029	0.035	Sabellidae	6.667	0.126	*	*
Isopoda	26.111	0.483	0.168	0.203	Diptera	4.628	0.088	0.004	0.001
Tellinidae	15.000	0.278	1.421	1.715	Capitellidae	4.444	0.084	0.021	0.005
Sabellidae	13.898	0.257	*	*	Caecidae	4.000	0.076	*	*
Diptera	8.333	0.154	0.020	0.024	Nemertea	2.667	0.051	0.004	0.001
Chironomidae	6.667	0.123	*	*	Idoteidae	1.889	0.036	0.089	0.020
Rissoidae	3.889	0.072	0.010	0.012	Balanomorpha	1.778	0.034	0.005	0.001
Amphipoda	3.889	0.072	0.034	0.042	Copepoda	1.333	0.025	*	*
Orbinidae	2.782	0.052	0.004	0.005	Cumacea	1.333	0.025	0.507	0.113
Nereidae	2.222	0.041	0.356	0.430	Nucellidae	0.721	0.014	0.924	0.206
Chilopoda	2.222	0.041	0.003	0.004	Cirratulidae	0.667	0.013	*	*
Coleoptera	1.667	0.031	*	*	Acari	0.667	0.013	*	*
Acari	1.111	0.021	*	*					
Cumacea	1.111	0.021	*	*					
Sphaerodoridae	0.557	0.010	*	*					
Polychaeta	0.556	0.010	*	*					
Arachnida	0.556	0.010	*	*					
Insecta	0.556	0.010	*	*					

Table D-22. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, coarse textured sites, 1991. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

50389C					50389				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	1498.312	52.767	1.427	2.143	Oligochaeta	700.789	15.502	0.294	0.188
Mytilidae	643.219	22.653	55.250	82.982	Cirratulidae	650.556	14.390	0.721	0.462
Platyhelminthes	207.606	7.311	0.113	0.170	Littorinidae	626.634	13.861	14.431	9.237
Littorinidae	193.973	6.831	8.284	12.442	Nematoda	358.961	7.940	0.003	0.002
Nematoda	162.406	5.720	*	*	Mytilidae	325.142	7.192	39.266	25.133
Cirratulidae	55.778	1.964	0.069	0.103	Archaeobalanidae	306.210	6.773	32.736	20.953
Lottidae	21.073	0.742	0.701	1.053	Balanidae	265.362	5.870	36.550	23.394
Onchidiidae	12.799	0.451	0.109	0.164	Turtoniidae	223.944	4.954	0.171	0.109
Collembola	7.780	0.274	*	*	Platyhelminthes	207.556	4.591	0.340	0.218
Nemertea	6.961	0.245	0.128	0.192	Sigalionidae	145.394	3.216	0.068	0.043
Diptera	5.928	0.209	*	*	Collembola	137.667	3.045	*	*
Sigalionidae	5.333	0.188	0.002	0.003	Capitellidae	136.111	3.011	0.474	0.303
Pseudoscorpionida	3.889	0.137	0.012	0.018	Amphipoda	100.633	2.226	0.640	0.409
Lacunidae	3.454	0.122	0.044	0.067	Phyllodocidae	57.222	1.266	0.096	0.062
Amphipoda	3.000	0.106	0.026	0.039	Lottidae	49.598	1.097	5.072	3.246
Balanidae	2.667	0.094	0.027	0.041	Cumacea	40.556	0.897	0.008	0.005
Archaeobalanidae	2.000	0.070	0.055	0.083	Isopoda	37.778	0.836	0.487	0.312
Coleoptera	0.967	0.034	*	*	Sabellidae	30.161	0.667	0.002	0.001
Holothuroidea	0.667	0.023	0.331	0.497	Pseudoscorpionida	17.922	0.396	0.017	0.011
Gastropoda	0.556	0.020	0.002	0.003	Orbinidae	17.778	0.393	0.154	0.099
Isopoda	0.556	0.020	*	*	Nemertea	15.556	0.344	0.061	0.039
Chironomidae	0.556	0.020	*	*	Chironomidae	15.000	0.332	0.003	0.002
					Diptera	12.256	0.271	0.001	0.001
					Spionidae	8.889	0.197	0.002	0.001
					Tellinidae	8.667	0.192	12.030	7.700
					Rissoidae	6.678	0.148	0.015	0.010
					Paguridae	3.889	0.086	0.244	0.156
					Holothuroidea	3.333	0.074	0.314	0.201
					Syllidae	2.222	0.049	*	*
					Sphaerodoridae	2.222	0.049	*	*
					Myidae	2.180	0.048	11.876	7.602
					Nereidae	1.111	0.025	0.057	0.036
					Lacunidae	0.560	0.012	0.014	0.009
					Annelida	0.556	0.012	0.087	0.055
					Polychaeta	0.556	0.012	*	*
					Polynoidae	0.556	0.012	0.001	0.001
					Acari	0.556	0.012	*	*

Table D-22 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, coarse textured sites, 1991.

51091C					51091				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	592.039	38.667	0.146	0.577	Oligochaeta	55454.441	95.308	24.973	54.917
Littorinidae	252.589	16.497	2.602	10.297	Platyhelminthes	1640.067	2.819	0.272	0.598
Nematoda	242.222	15.820	*	*	Nematoda	363.172	0.624	*	*
Balanidae	157.222	10.269	15.628	61.843	Amphipoda	233.778	0.402	2.601	5.721
Collembola	81.300	5.310	*	*	Saccocirridae	185.183	0.318	0.193	0.425
Syllidae	59.444	3.882	0.073	0.288	Balanidae	115.639	0.199	4.703	10.341
Amphipoda	54.628	3.568	0.674	2.669	Littorinidae	80.839	0.139	7.231	15.902
Mytilidae	29.628	1.935	5.850	23.151	Archaeobalanidae	32.389	0.056	1.523	3.350
Cirratulidae	21.294	1.391	0.006	0.022	Mytilidae	29.428	0.051	3.922	8.626
Platyhelminthes	11.850	0.774	*	*	Collembola	26.478	0.046	*	*
Acari	10.556	0.689	*	*	Acari	8.506	0.015	*	*
Nemertea	10.000	0.653	0.234	0.928	Nemertea	7.033	0.012	0.037	0.082
Diptera	6.111	0.399	0.050	0.198	Ostracoda	2.961	0.005	*	*
Turtoniidae	1.111	0.073	*	*	Diptera	2.333	0.004	*	*
Polychaeta	0.556	0.036	0.003	0.011	Phyllocoridae	0.806	0.001	0.001	0.002
Lottidae	0.556	0.036	0.003	0.013	Spionidae	0.806	0.001	*	*
					Syllidae	0.556	0.001	0.015	0.033

Table D-22 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, coarse textured sites, 1991.

62802C					50226				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Collembola	1736.750	25.893	0.070	0.102	Amphipoda	2954.256	35.225	5.064	0.951
Oligochaeta	1478.283	22.040	1.719	2.511	Oligochaeta	2067.778	24.655	1.071	0.201
Archaeobalanidae	1185.624	17.676	45.423	66.355	Archaeobalanidae	1365.635	16.283	52.665	9.887
Platyhelminthes	793.122	11.825	0.838	1.224	Mytilidae	374.633	4.467	424.352	79.666
Cirratulidae	588.033	8.767	0.814	1.189	Nematoda	358.517	4.275	0.001	0.000
Littorinidae	260.689	3.887	3.463	5.059	Lottidae	277.353	3.307	10.278	1.930
Nematoda	215.039	3.206	0.004	0.006	Isopoda	262.039	3.124	1.085	0.204
Mytilidae	112.594	1.679	5.971	8.722	Littorinidae	235.792	2.811	11.319	2.125
Nemertea	82.572	1.231	0.642	0.937	Balanidae	209.554	2.499	21.032	3.948
Phyllodocidae	44.706	0.667	0.463	0.676	Platyhelminthes	146.111	1.742	0.188	0.035
Pseudoscorpionida	43.094	0.642	0.044	0.065	Nereidae	42.222	0.503	5.331	1.001
Balanidae	40.566	0.605	7.973	11.648	Sigalionidae	23.706	0.283	0.006	0.001
Sigalionidae	33.461	0.499	0.015	0.022	Collembola	16.294	0.194	*	*
Turtonidae	29.422	0.439	0.052	0.076	Pseudoscorpionida	8.517	0.102	0.009	0.002
Lottidae	26.594	0.396	0.926	1.353	Nemertea	8.150	0.097	0.002	0.000
Sabellidae	8.889	0.133	*	*	Chironomidae	6.111	0.073	0.001	0.000
Caecidae	5.928	0.088	*	*	Cirratulidae	4.444	0.053	0.004	0.001
Acari	4.444	0.066	*	*	Sabellidae	4.072	0.049	*	*
Nereidae	2.961	0.044	*	*	Tellinidae	3.517	0.042	0.009	0.002
Goniadidae	2.961	0.044	0.012	0.017	Balanomorpha	3.517	0.042	0.130	0.024
Ostracoda	2.961	0.044	*	*	Diptera	3.517	0.042	0.001	0.000
Isopoda	2.961	0.044	0.027	0.039	Acari	3.333	0.040	*	*
Chilopoda	2.961	0.044	*	*	Lacunidae	2.778	0.033	0.041	0.008
Chironomidae	2.778	0.041	*	*	Idoteidae	2.778	0.033	0.076	0.014
					Coleoptera	1.111	0.013	*	*
					Capitellidae	0.556	0.007	*	*
					Copepoda	0.556	0.007	*	*

Table D-23. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, coarse textured sites, 1989. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

94935C				31288					
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
Oligochaeta	2455.000	24.750	0.155	0.018	Oligochaeta	2148.889	67.176	0.653	1.919
Littorinidae	2323.755	23.427	136.325	15.431	Archaeobalanidae	639.638	19.996	8.793	25.830
Balanidae	2146.877	21.643	603.546	68.315	Littorinidae	238.730	7.463	19.578	57.513
Cirratulidae	672.193	6.777	0.573	0.065	Platyhelminthes	63.333	1.980	0.010	0.030
Collembola	620.000	6.250	0.035	0.004	Nematoda	44.444	1.389	0.002	0.007
Archaeobalanidae	406.457	4.098	24.762	2.803	Lottidae	19.048	0.595	0.653	1.917
Nematoda	366.667	3.697	0.007	0.001	Mytilidae	11.111	0.347	3.767	11.065
Platyhelminthes	288.333	2.907	0.250	0.028	Serpulidae	6.667	0.208	*	*
Mytilidae	236.667	2.386	107.483	12.166	Copepoda	6.667	0.208	0.001	0.004
Syllidae	122.457	1.235	0.142	0.016	Nemertea	3.333	0.104	0.084	0.248
Lottiidae	68.803	0.694	4.172	0.472	Acari	3.333	0.104	0.001	0.003
Diptera	56.667	0.571	0.383	0.043	Insecta	3.333	0.104	*	*
Nemertea	43.333	0.437	4.092	0.463	Balanidae	2.584	0.081	0.197	0.578
Pseudoscorpionida	25.000	0.252	0.018	0.002	Idoteidae	2.222	0.069	0.201	0.591
Acari	25.000	0.252	*	*	Gastropoda	1.111	0.035	*	*
Phyllodocidae	22.018	0.222	0.052	0.006	Turtoniidae	1.111	0.035	*	*
Copepoda	16.667	0.168	*	*	Balanomorphs	1.111	0.035	*	*
Paguridae	15.000	0.151	0.740	0.084	Amphipoda	1.111	0.035	*	*
Rissoidae	1.692	0.017	0.003	0.000	Paguridae	1.111	0.035	0.100	0.294
Buccinidae	1.692	0.017	0.725	0.082					
Sigalionidae	1.667	0.017	*	*					
Tellinidae	1.667	0.017	0.003	0.000					
Amphipoda	1.667	0.017	0.008	0.001					

Table D-24. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, coarse textured sites, 1990 1st visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

34335<					31288				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	838.706	18.176	1.250	0.068	Oligochaeta	3502.979	63.418	2.608	11.277
Littorinidae	816.904	17.703	52.714	2.857	Archaeobalanidae	743.780	13.465	10.041	43.421
Mytilidae	803.889	17.421	1462.441	79.258	Nematoda	573.689	10.386	0.002	0.006
Balanidae	520.904	11.289	266.610	14.449	Platyhelminthes	288.092	5.216	0.078	0.339
Lottidae	433.372	9.392	9.000	0.488	Saccocirridae	117.773	2.132	0.207	0.894
Nemertea	341.667	7.404	0.769	0.042	Littorinidae	100.336	1.816	4.832	20.894
Archaeobalanidae	202.429	4.387	32.179	1.744	Syllidae	82.333	1.491	0.090	0.390
Nematoda	175.000	3.792	0.006	0.000	Nemertea	24.200	0.438	0.180	0.779
Phyllodocidae	116.702	2.529	1.163	0.063	Mytilidae	22.512	0.408	4.742	20.508
Platyhelminthes	80.000	1.734	0.769	0.042	Collembola	20.720	0.375	*	*
Cirratulidae	64.797	1.404	0.104	0.006	Lottidae	18.442	0.334	0.308	1.332
Syllidae	39.612	0.858	0.049	0.003	Cirratulidae	16.187	0.293	0.020	0.087
Collembola	30.630	0.664	0.015	0.001	Acari	2.961	0.054	*	*
Amphipoda	21.667	0.470	0.054	0.003	Pseudoscorpionida	2.222	0.040	0.004	0.019
Coleoptera	17.679	0.383	0.006	0.000	Gastropoda	1.333	0.024	*	*
Diptera	16.105	0.349	0.068	0.004	Insecta	1.333	0.024	*	*
Saccocirridae	13.333	0.289	0.005	0.000	Balanomorpha	1.222	0.022	0.003	0.015
Onchidiidae	13.255	0.287	0.222	0.012	Capitellidae	1.187	0.021	*	*
Rissoidae	12.075	0.262	0.038	0.002	Isopoda	0.667	0.012	0.002	0.009
Nucellidae	8.072	0.175	10.931	0.592	Nereidae	0.556	0.010	0.006	0.024
Paguridae	7.222	0.157	0.593	0.032	Spirorbidae	0.556	0.010	*	*
Asteriidae	6.667	0.144	5.127	0.278	Turtoniidae	0.556	0.010	0.001	0.005
Acari	3.889	0.084	0.003	0.000					
Buccinidae	3.450	0.075	0.091	0.005					
Siphonariidae	3.427	0.074	0.138	0.008					
Chironomidae	3.364	0.073	0.002	0.000					
Pseudoscorpionida	3.333	0.072	0.004	0.000					
Balanomorpha	2.961	0.064	0.027	0.001					
Holothuroidea	2.778	0.060	0.274	0.015					
Sigalionidae	2.222	0.048	0.003	0.000					
Spionidae	1.111	0.024	*	*					
Copepoda	1.111	0.024	*	*					
Cumacea	1.111	0.024	*	*					
Isopoda	1.111	0.024	*	*					
Anthozoa	0.556	0.012	0.004	0.000					
Nereidae	0.556	0.012	*	*					
Paraonidae	0.556	0.012	*	*					
Sabellidae	0.556	0.012	*	*					
Turtoniidae	0.556	0.012	*	*					
Epicaridea	0.556	0.012	0.002	0.000					
Grapsidae	0.556	0.012	0.501	0.027					

Table D-24 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, coarse textured sites, 1990 1st visit.

13.1C					13.1				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	665.693	42.030	47.885	60.066	Oligochaeta	2185.000	48.016	1.379	0.503
Oligochaeta	584.939	36.931	1.036	1.300	Amphipoda	1377.778	30.277	8.419	3.073
Amphipoda	140.000	8.839	0.665	0.835	Archaeobalanidae	342.681	7.531	18.628	6.798
Littorinidae	90.278	5.700	19.964	25.042	Littorinidae	261.653	5.750	157.514	57.487
Cirratulidae	24.128	1.523	*	*	Balanidae	201.764	4.434	18.936	6.911
Balanidae	17.357	1.096	3.752	4.706	Mytilidae	66.667	1.465	65.294	23.830
Lottiidae	16.389	1.035	6.221	7.803	Platyhelminthes	38.889	0.855	0.002	0.001
Nematoda	15.872	1.002	*	*	Nematoda	32.222	0.708	*	*
Acari	8.333	0.526	*	*	Lottiidae	18.347	0.403	2.878	1.050
Coleoptera	3.889	0.246	*	*	Diptera	6.556	0.144	0.021	0.008
Mytilidae	3.333	0.210	0.170	0.213	Acari	6.111	0.134	*	*
Collembola	3.094	0.195	*	*	Paguridae	3.333	0.073	0.856	0.312
Nemertea	2.222	0.140	0.007	0.009	Sabellidae	2.778	0.061	*	*
Diptera	2.222	0.140	0.012	0.015	Capitellidae	2.222	0.049	*	*
Bryozoa	1.667	0.105	0.001	0.002	Bryozoa	1.667	0.037	0.058	0.021
Sabellidae	1.111	0.070	*	*	Nemertea	1.111	0.024	*	*
Chironomidae	1.111	0.070	*	*	Collembola	0.667	0.015	*	*
Hydrozoa	0.556	0.035	0.006	0.008	Spirorbidae	0.556	0.012	0.015	0.005
Syllidae	0.556	0.035	*	*	Balanomorpha	0.556	0.012	*	*
Copepoda	0.556	0.035	*	*					
Balanomorpha	0.556	0.035	0.001	0.001					

Table D-25. Mean abundance (no. m^{-2}) and biomass (g m^{-2}) of all taxa for KAP, coarse textured sites, 1990 2nd visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

94935C

31288

Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m^{-2})	(%)	(g m^{-2})	(%)		(no. m^{-2})	(%)	(g m^{-2})	(%)
Littorinidae	1799.978	25.698	115.914	11.765	Oligochaeta	3324.933	70.544	2.492	3.328
Balanidae	1407.963	20.101	574.591	58.318	Archaeobalanidae	782.617	16.605	38.167	50.977
Mytilidae	1267.989	18.103	226.917	23.031	Platyhelminthes	146.339	3.105	0.018	0.025
Collembola	485.979	6.938	0.012	0.001	Littorinidae	86.867	1.843	5.882	7.856
Nematoda	429.239	6.128	0.009	0.001	Amphipoda	74.900	1.589	0.075	0.100
Lottidae	361.937	5.167	13.323	1.352	Mytilidae	61.611	1.307	26.929	35.968
Oligochaeta	328.478	4.690	0.057	0.006	Collembola	58.633	1.244	*	*
Platyhelminthes	293.772	4.194	0.331	0.034	Lottidae	48.028	1.019	0.987	1.318
Nemertea	115.144	1.644	1.859	0.189	Sigalionidae	46.111	0.978	0.015	0.020
Phyllodocidae	99.000	1.413	0.315	0.032	Syllidae	21.111	0.448	0.019	0.025
Cirratulidae	95.189	1.359	0.121	0.012	Nemertea	16.111	0.342	0.057	0.076
Archaeobalanidae	85.642	1.223	47.077	4.778	Nematoda	13.333	0.283	*	*
Hiatellidae	52.222	0.746	0.050	0.005	Diptera	7.222	0.153	0.029	0.039
Amphipoda	37.444	0.535	0.019	0.002	Foraminiferida	4.444	0.094	*	*
Paguridae	30.667	0.438	1.954	0.198	Chironomidae	4.444	0.094	*	*
Syllidae	29.794	0.425	0.041	0.004	Gastropoda	2.222	0.047	0.001	0.001
Onchidiidae	22.326	0.319	0.232	0.024	Balanomorpha	2.222	0.047	0.011	0.014
Sigalionidae	11.111	0.159	0.001	0.000	Cumacea	2.222	0.047	*	*
Diptera	9.222	0.132	0.053	0.005	Sabellidae	1.667	0.035	*	*
Chironomidae	8.982	0.128	*	*	Isopoda	1.667	0.035	0.001	0.001
Onchidorididae	8.526	0.122	0.365	0.037	Paguridae	1.111	0.024	0.002	0.002
Pseudoscorpionida	7.667	0.109	0.005	0.001	Spirorbidae	0.889	0.019	*	*
Sabellidae	3.889	0.056	*	*	Copepoda	0.806	0.017	*	*
Nucellidae	2.274	0.032	1.737	0.176	Caprellidea	0.806	0.017	*	*
Lacunidae	1.669	0.024	0.001	0.000	Balanidae	0.717	0.015	0.019	0.025
Nereidae	1.667	0.024	*	*	Glyceridae	0.556	0.012	0.013	0.018
Acari	1.667	0.024	*	*	Opheliidae	0.556	0.012	0.001	0.001
Cryptoniscidae	1.111	0.016	0.074	0.008	Trochidae	0.556	0.012	0.014	0.019
Caecidae	0.590	0.008	*	*	Veneridae	0.556	0.012	0.139	0.186
Rissoidae	0.558	0.008	*	*					
Spionidae	0.556	0.008	*	*					
Capitellidae	0.556	0.008	*	*					
Terebellidae	0.556	0.008	0.002	0.000					
Copepoda	0.556	0.008	*	*					
Holothuroidea	0.556	0.008	0.213	0.022					

Table D-25 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, coarse textured sites, 1990 2nd visit.

13.1C					13.1				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	1043.917	57.817	89.456	65.406	Oligochaeta	8684.444	73.597	6.733	5.824
Littorinidae	218.824	12.119	4.341	3.174	Amphipoda	1666.111	14.120	6.248	5.405
Platyhelminthes	210.556	11.662	0.295	0.216	Acari	507.222	4.298	0.252	0.218
Balanidae	179.417	9.937	22.444	16.410	Archaeobalanidae	352.546	2.988	9.816	8.491
Mytilidae	35.000	1.938	18.368	13.430	Diptera	234.444	1.987	0.479	0.414
Lottiidae	27.842	1.542	1.411	1.032	Littorinidae	122.222	1.036	44.201	38.236
Diptera	27.778	1.538	0.209	0.153	Balanidae	86.898	0.736	5.819	5.034
Oligochaeta	21.667	1.200	0.013	0.010	Mytilidae	41.667	0.353	37.666	32.583
Amphipoda	14.444	0.800	0.038	0.028	Lottiidae	33.333	0.282	4.150	3.590
Isopoda	10.000	0.554	0.064	0.047	Platyhelminthes	28.889	0.245	0.007	0.006
Nemertea	6.667	0.369	0.041	0.030	Saccocirridae	16.111	0.137	0.015	0.013
Nematoda	2.222	0.123	*	*	Nematoda	8.333	0.071	*	*
Syllidae	2.222	0.123	0.016	0.011	Nemertea	2.778	0.024	0.013	0.012
Cryptoniscidae	2.222	0.123	0.012	0.009	Paguridae	2.778	0.024	0.136	0.117
Hydrozoa	0.556	0.031	*	*	Phyllococidae	2.222	0.019	0.043	0.037
Acari	0.556	0.031	*	*	Pycnogonidae	2.222	0.019	0.002	0.002
Idoteidae	0.556	0.031	0.039	0.028	Isopoda	1.667	0.014	0.003	0.003
Paguridae	0.556	0.031	0.022	0.016	Polychaeta	1.111	0.009	0.001	0.001
Coleoptera	0.556	0.031	*	*	Spionidae	1.111	0.009	0.002	0.001
					Syllidae	0.556	0.005	*	*
					Turtoniidae	0.556	0.005	*	*
					Idoteidae	0.556	0.005	0.011	0.010
					Bryozoa	0.556	0.005	0.004	0.003

Table D-26. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, coarse textured sites, 1991. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

94935C					31288				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Balanidae	1021.663	16.883	390.045	36.124	Oligochaeta	5874.467	91.615	3.978	5.687
Littorinidae	892.773	14.753	27.727	2.568	Platyhelminthes	257.383	4.014	0.077	0.110
Mytilidae	768.878	12.706	54.758	5.071	Nematoda	101.070	1.576	*	*
Oligochaeta	681.483	11.262	0.294	0.027	Littorinidae	54.211	0.845	3.911	5.591
Nematoda	609.817	10.077	0.072	0.007	Collembola	34.753	0.542	*	*
Chironomidae	522.961	8.642	0.221	0.020	Mytilidae	29.772	0.464	61.555	88.007
Platyhelminthes	353.517	5.842	0.435	0.040	Syllidae	17.020	0.265	0.018	0.025
Lottidae	188.811	3.120	2.932	0.272	Nemertea	14.936	0.233	0.042	0.060
Copepoda	172.222	2.846	0.027	0.002	Amphipoda	9.850	0.154	0.067	0.096
Archaeobalanidae	152.226	2.516	579.038	53.628	Acari	9.628	0.150	*	*
Holothuroidea	151.667	2.506	11.658	1.080	Archaeobalanidae	5.000	0.078	0.186	0.266
Diptera	113.889	1.882	0.068	0.006	Lottidae	2.222	0.035	0.106	0.151
Rissoidae	64.469	1.065	0.180	0.017	Polychaeta	1.780	0.028	0.004	0.005
Collembola	48.333	0.799	*	*					
Amphipoda	43.333	0.716	0.891	0.082					
Turtonidae	37.788	0.624	0.043	0.004					
Cirratulidae	32.961	0.545	0.042	0.004					
Nemertea	31.294	0.517	0.218	0.020					
Cumacea	21.667	0.358	0.006	0.001					
Phyllodoctidae	21.483	0.355	0.289	0.027					
Syllidae	20.556	0.340	0.062	0.006					
Sigalionidae	15.739	0.260	0.003	0.000					
Nereidae	12.778	0.211	0.027	0.003					
Sabellidae	12.222	0.202	*	*					
Trochidae	8.473	0.140	0.179	0.017					
Paguridae	7.778	0.129	0.099	0.009					
Asferiidae	7.222	0.119	0.725	0.067					
Annelida	6.111	0.101	0.011	0.001					
Acari	5.000	0.083	0.002	0.000					
Skeneopsidae	4.171	0.069	0.004	0.000					
Onchidiidae	3.565	0.059	0.042	0.004					
Mopaliidae	3.333	0.055	7.867	0.729					
Lepidochitonidae	2.778	0.046	0.074	0.007					
Pseudoscorpionida	2.778	0.046	0.002	0.000					
Siphonariidae	1.816	0.030	0.006	0.001					
Lacunidae	1.211	0.020	0.013	0.001					
Actiniidae	1.111	0.018	0.487	0.045					
Pycnogonida	1.111	0.018	0.001	0.000					
Buccinidae	0.605	0.010	1.026	0.095					
Nucellidae	0.596	0.010	0.155	0.014					
Anthozoa	0.556	0.009	0.002	0.000					
Polychaeta	0.556	0.009	*	*					

Table D-26 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for KAP, coarse textured sites, 1991.

13.1C					13.1				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	430.556	36.712	0.543	1.678	Oligochaeta	3663.150	69.715	6.867	3.494
Archaeobalanidae	315.080	26.866	21.981	67.965	Archaeobalanidae	453.326	8.627	11.426	5.814
Nematoda	168.333	14.353	0.003	0.011	Balanidae	427.229	8.131	36.896	18.775
Amphipoda	101.111	8.621	0.857	2.649	Littorinidae	217.222	4.134	71.402	36.333
Littorinidae	98.532	8.402	4.201	12.988	Mytilidae	126.667	2.411	64.978	33.064
Balanidae	41.031	3.499	4.314	13.340	Amphipoda	95.556	1.819	2.582	1.314
Diptera	8.333	0.711	0.057	0.175	Sabellidae	95.000	1.808	0.034	0.018
Lottidae	3.691	0.315	0.351	1.085	Nematoda	51.294	0.976	0.003	0.002
Syllidae	1.667	0.142	0.004	0.012	Saccociridae	36.111	0.687	0.051	0.026
Mytilidae	1.111	0.095	0.013	0.041	Collembola	17.778	0.338	*	*
Gastropoda	0.556	0.047	0.002	0.005	Syllidae	14.444	0.275	0.039	0.020
Balanomorpha	0.556	0.047	0.003	0.009	Lottidae	14.444	0.275	2.127	1.082
Isopoda	0.556	0.047	0.001	0.002	Nemertea	10.556	0.201	0.050	0.025
Collembola	0.556	0.047	*	*	Acari	5.928	0.113	*	*
Chironomidae	0.556	0.047	0.001	0.002	Platyhelminthes	5.556	0.106	0.011	0.005
Bryozoa	0.556	0.047	0.012	0.038	Turtoniidae	5.556	0.106	0.003	0.002
					Diptera	4.628	0.088	0.025	0.013
					Chironomidae	3.333	0.063	*	*
					Phyllococidae	2.778	0.053	0.022	0.011
					Sponidae	1.111	0.021	0.005	0.003
					Hydrozoa	0.556	0.011	*	*
					Nereidae	0.556	0.011	*	*
					Spirorbidae	0.556	0.011	*	*
					Cumacea	0.556	0.011	*	*
					Coleoptera	0.556	0.011	*	*

Table D-27. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered estuary sites, 1989. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

Z3E7C				Z08/0E					
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
Archaeobalanidae	30619.107	76.204	555.504	41.061	Archaeobalanidae	1101.136	35.352	127.794	24.855
Littorinidae	2731.587	6.798	46.574	3.443	Oligochaeta	739.111	23.729	0.236	0.046
Mytilidae	1472.222	3.664	642.768	47.512	Mytilidae	457.889	14.701	356.859	69.408
Balanidae	988.154	2.459	73.614	5.441	Amphipoda	247.333	7.941	1.047	0.204
Oligochaeta	834.444	2.077	0.314	0.023	Littorinidae	200.912	6.450	17.924	3.486
Acari	681.111	1.695	0.002	0.000	Lottiidae	88.838	2.852	6.181	1.202
Lottiidae	572.122	1.424	13.541	1.001	Balanidae	71.311	2.289	2.487	0.484
Lacunidae	475.081	1.182	0.814	0.060	Copepoda	67.222	2.158	0.003	0.001
Arachnida	354.444	0.882	*	*	Isopoda	48.889	1.570	0.317	0.062
Diptera	263.217	0.655	1.948	0.144	Chironomidae	28.482	0.914	0.007	0.001
Platyhelminthes	257.778	0.642	0.392	0.029	Platyhelminthes	17.778	0.571	0.019	0.004
Chironomidae	239.416	0.596	0.009	0.001	Acari	11.778	0.378	*	*
Amphipoda	195.556	0.487	0.552	0.041	Nematoda	7.889	0.253	*	*
Nematoda	76.667	0.191	0.002	0.000	Paguridae	7.778	0.250	0.553	0.108
Caprellidae	60.000	0.149	0.013	0.001	Lacunidae	7.027	0.226	0.007	0.001
Nemertea	48.889	0.122	0.115	0.008	Idoteidae	3.889	0.125	0.703	0.137
Montacutidae	46.667	0.116	0.158	0.012	Diptera	3.518	0.113	0.013	0.003
Paguridae	46.667	0.116	4.587	0.339	Arachnida	1.667	0.054	*	*
Isopoda	40.000	0.100	0.347	0.026	Nemertea	1.222	0.039	*	*
Rissidae	34.232	0.085	0.052	0.004	Pseudoscorpionida	0.556	0.018	*	*
Pseudoscorpionida	16.667	0.041	0.030	0.002	Cumacea	0.556	0.018	*	*
Collembola	14.036	0.035	*	*					
Amphictenidae	13.333	0.033	0.006	0.000					
Tellinidae	13.333	0.033	1.986	0.147					
Copepoda	13.333	0.033	*	*					
Caprellidea	13.333	0.033	0.001	0.000					
Opheliidae	10.000	0.025	0.002	0.000					
Insecta	7.778	0.019	0.004	0.000					
Phyllodocidae	5.926	0.015	0.003	0.000					
Spionidae	5.556	0.014	*	*					
Nereidae	3.703	0.009	*	*					
Polynoidae	3.333	0.008	0.014	0.001					
Turtoniidae	3.333	0.008	0.004	0.000					
Ostracoda	3.333	0.008	*	*					
Foraminiferida	2.222	0.006	*	*					
Goniadidae	2.222	0.006	0.004	0.000					
Idoteidae	2.222	0.006	1.237	0.091					
Cryptoniscidae	2.222	0.006	0.003	0.000					
Sabellidae	1.481	0.004	*	*					
Hesionidae	1.111	0.003	*	*					
Syllidae	1.111	0.003	*	*					
Ampharetidae	1.111	0.003	*	*					
Myidae	1.111	0.003	8.260	0.611					
Balanomorpha	1.111	0.003	*	*					

Table D-28. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered estuary sites, 1990 1st visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

Control Site Not Sampled				P15.1C					
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
					Oligochaeta	1607.775	72.622	0.495	1.616
					Littorinidae	174.167	7.867	5.905	19.272
					Archaeobalanidae	132.918	6.004	6.697	21.856
					Amphipoda	62.500	2.823	0.488	1.594
					Gastropoda	47.775	2.158	0.640	2.088
					Diptera	37.692	1.703	0.096	0.314
					Mytilidae	36.667	1.656	0.328	1.072
					Coleoptera	17.783	0.803	0.035	0.116
					Nematoda	17.500	0.790	*	*
					Tellinidae	17.083	0.772	0.585	1.909
					Balanidae	10.965	0.495	1.417	4.625
					Collembola	9.038	0.408	0.007	0.022
					Montacutidae	7.083	0.320	*	*
					Turtoniidae	7.083	0.320	*	*
					Cardiidae	7.083	0.320	13.437	43.850
					Goniadidae	3.333	0.151	0.005	0.016
					Lottiidae	3.333	0.151	0.426	1.391
					Chironomidae	3.269	0.148	0.001	0.004
					Acari	2.500	0.113	0.001	0.003
					Spionidae	1.667	0.075	*	*
					Cirratulidae	1.667	0.075	0.007	0.022
					Arachnida	1.667	0.075	0.022	0.073
					Pseudoscorpionida	1.667	0.075	0.007	0.024
					Balanomorpha	1.667	0.075	0.040	0.131

Table D-28 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered estuary sites, 1990 1st visit.

2397C					208/09				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	5853.444	56.457	401.928	50.690	Oligochaeta	1342.597	37.732	0.844	0.434
Mytilidae	1482.816	14.302	322.027	40.613	Archaeobalanidae	906.150	25.466	53.748	27.674
Littorinidae	681.483	6.573	18.344	2.313	Amphipoda	604.447	16.987	3.493	1.798
Chironomidae	626.652	6.044	0.082	0.010	Balanidae	197.628	5.554	5.110	2.631
Nematoda	327.667	3.160	0.007	0.001	Mytilidae	158.000	4.440	118.380	60.952
Oligochaeta	321.002	3.096	0.171	0.022	Littorinidae	101.324	2.848	7.189	3.702
Lottidae	239.919	2.314	7.290	0.919	Nematoda	71.444	2.008	*	*
Balanidae	193.332	1.865	24.420	3.080	Lottidae	67.700	1.903	3.790	1.951
Amphipoda	118.667	1.145	0.272	0.034	Collembola	37.004	1.040	*	*
Nemertea	95.884	0.925	0.447	0.056	Isopoda	18.889	0.531	0.182	0.094
Cumacea	95.333	0.919	0.022	0.003	Nemertea	17.222	0.484	0.294	0.152
Platyhelminthes	67.887	0.655	0.078	0.010	Platyhelminthes	11.033	0.310	0.003	0.001
Rissoidae	48.217	0.465	0.096	0.012	Chilopoda	6.514	0.183	0.021	0.011
Tellinidae	31.952	0.308	5.977	0.754	Diptera	5.622	0.158	0.003	0.001
Diptera	31.234	0.301	0.051	0.006	Idoteidae	4.444	0.125	1.099	0.566
Polynoidae	16.413	0.158	0.156	0.020	Balanomorpha	3.553	0.100	0.007	0.004
Paguridae	16.111	0.155	1.627	0.205	Chironomidae	2.444	0.069	*	*
Turtoniidae	14.487	0.140	0.020	0.003	Phyllococidae	1.111	0.031	0.017	0.009
Acari	12.889	0.124	0.002	0.000	Stichaeidae	1.111	0.031	0.037	0.019
Isopoda	12.776	0.123	0.147	0.019					
Phyllococidae	11.238	0.108	0.166	0.021					
Copepoda	9.444	0.091	0.003	0.000					
Nucellidae	8.976	0.087	2.597	0.327					
Lacunidae	8.386	0.081	0.057	0.007					
Echiuridae	8.333	0.080	4.524	0.571					
Montacutidae	5.745	0.055	0.013	0.002					
Coleoptera	5.566	0.054	0.005	0.001					
Sigalionidae	3.889	0.038	*	*					
Spionidae	3.554	0.034	0.001	0.000					
Hiatellidae	2.226	0.021	0.043	0.005					
Annelida	1.889	0.018	0.021	0.003					
Nereidae	1.787	0.017	0.003	0.000					
Capitellidae	1.301	0.013	*	*					
Syllidae	1.149	0.011	0.001	0.000					
Buccinidae	1.116	0.011	1.988	0.251					
Opisthobranchia	1.116	0.011	0.001	0.000					
Lepidochitonidae	1.111	0.011	0.013	0.002					
Pseudoscorpionida	0.667	0.006	0.003	0.000					
Idoteidae	0.667	0.006	0.037	0.005					
Collembola	0.556	0.005	*	*					
Holothuroidea	0.556	0.005	0.060	0.008					
Stichaeidae	0.556	0.005	0.214	0.027					

Table D-29. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered estuary sites, 1990 2nd visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

P15.1C					P15.1				
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	4810.450	61.024	1.507	3.576	Oligochaeta	8031.225	83.683	1.975	0.675
Mytilidae	882.783	11.199	17.770	42.163	Archaeobalanidae	486.770	5.072	35.921	12.283
Amphipoda	692.117	8.780	0.692	1.641	Nematoda	404.657	4.216	0.014	0.005
Balanomorpha	485.000	6.153	2.872	6.814	Nereidae	190.887	1.989	4.749	1.624
Archaeobalanidae	182.772	2.319	14.909	35.375	Mytilidae	181.525	1.891	207.827	71.067
Balanidae	109.445	1.388	0.443	1.050	Littorinidae	128.132	1.335	7.483	2.559
Phyllodocidae	108.228	1.373	0.065	0.155	Lottiidae	64.527	0.672	0.862	0.295
Gastropoda	93.333	1.184	1.315	3.120	Phyllodocidae	31.667	0.330	0.157	0.054
Nematoda	72.217	0.916	*	*	Balanomorpha	29.333	0.306	0.186	0.064
Isopoda	70.000	0.888	0.480	1.139	Copepoda	17.775	0.185	*	*
Diptera	55.000	0.698	0.068	0.162	Paguridae	11.667	0.122	0.720	0.246
Spionidae	53.333	0.677	0.012	0.028	Tellinidae	4.005	0.042	11.314	3.869
Cirratulidae	53.333	0.677	0.003	0.008	Gastropoda	3.333	0.035	0.154	0.053
Nemertea	50.883	0.645	0.062	0.147	Isopoda	3.333	0.035	0.003	0.001
Littorinidae	39.333	0.499	0.475	1.128	Myidae	1.738	0.018	21.032	7.192
Cumacea	35.000	0.444	0.003	0.008	Platyhelminthes	1.667	0.017	*	*
Chironomidae	33.333	0.423	*	*	Annelida	1.667	0.017	0.005	0.002
Platyhelminthes	33.217	0.421	0.025	0.060	Capitellidae	1.667	0.017	0.033	0.011
Nephtyidae	10.198	0.129	1.140	2.705	Chironomidae	1.667	0.017	*	*
Bivalvia	6.667	0.085	0.180	0.427					
Goniatidae	3.467	0.044	0.122	0.291					
Capitellidae	2.773	0.035	*	*					

Table D-29 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered estuary sites, 1990 2nd visit.

2397C					208/09				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	2818.175	28.423	220.814	30.483	Oligochaeta	3533.728	57.991	1.703	0.638
Oligochaeta	1705.781	17.204	0.796	0.110	Amphipoda	546.590	8.970	2.778	1.040
Littorinidae	1402.681	14.147	30.786	4.250	Mytilidae	492.987	8.090	195.110	73.055
Mytilidae	1144.263	11.541	395.062	54.537	Archaeobalanidae	452.893	7.431	36.496	13.665
Lottidae	365.885	3.690	9.559	1.320	Nematoda	301.626	4.950	0.013	0.005
Nemertea	362.341	3.654	0.866	0.120	Littorinidae	180.025	2.954	18.365	6.877
Amphipoda	295.362	2.979	0.793	0.110	Platyhelminthes	121.153	1.989	0.144	0.054
Nematoda	251.226	2.534	0.004	0.001	Lottidae	118.315	1.942	5.217	1.954
Platyhelminthes	207.464	2.092	0.204	0.028	Isopoda	107.481	1.764	0.382	0.143
Capitellidae	162.831	1.642	0.076	0.011	Balanidae	45.199	0.742	4.008	1.501
Tellinidae	131.132	1.323	21.718	2.998	Chironomidae	29.741	0.488	0.007	0.003
Phyllodocidae	104.897	1.058	0.254	0.035	Nemertea	25.594	0.420	0.191	0.071
Chironomidae	98.670	0.995	0.007	0.001	Paguridae	22.113	0.363	1.147	0.429
Cumacea	86.724	0.875	0.020	0.003	Paguridae	16.889	0.277	0.063	0.024
Polynoidae	83.049	0.838	0.840	0.116	Diptera	14.776	0.242	*	*
Montacutidae	79.396	0.801	0.228	0.032	Cumacea	12.556	0.206	0.550	0.206
Spionidae	60.013	0.605	0.021	0.003	Idoteidae	10.447	0.171	*	*
Hiatellidae	59.852	0.604	6.123	0.845	Sabellidae	9.444	0.155	0.001	0.000
Diptera	56.222	0.567	0.281	0.039	Collembola	7.669	0.126	0.018	0.007
Paguridae	55.874	0.564	1.910	0.264	Cirratulidae	7.494	0.123	0.001	0.000
Isopoda	52.536	0.530	0.129	0.018	Acari	5.331	0.087	0.153	0.057
Sigalionidae	32.179	0.325	0.118	0.016	Nereidae	4.444	0.073	0.001	0.000
Balanidae	31.316	0.316	2.850	0.393	Sigalionidae	4.109	0.067	*	*
Coleoptera	24.442	0.247	0.014	0.002	Turtoniidae	3.553	0.058	0.228	0.085
Opisthobranchia	24.000	0.242	0.050	0.007	Stichaeidae	3.222	0.053	0.007	0.003
Goniadidae	22.579	0.228	0.218	0.030	Pseudoscorpionida	2.889	0.047	0.003	0.001
Turtoniidae	21.279	0.215	0.017	0.002	Chilopoda	2.444	0.040	0.263	0.098
Veneridae	19.482	0.196	17.374	2.398	Grapsidae	2.222	0.036	0.010	0.004
Amphictenidae	17.341	0.175	0.595	0.082	Phyllodocidae	2.222	0.036	*	*
Pseudoscorpionida	15.553	0.157	0.023	0.003	Copepoda	1.914	0.031	0.183	0.069
Lepidochitonidae	14.580	0.147	0.234	0.032	Tellinidae	1.483	0.024	*	*
Ophelidae	14.526	0.147	0.008	0.001	Balanomorpha	1.333	0.022	*	*
Balanomorpha	14.444	0.146	0.494	0.068	Coleoptera	0.667	0.011	0.002	0.001
Pyramidellidae	12.445	0.126	0.116	0.016	Cryptoniscidae	0.556	0.009	0.002	0.001
Hesionidae	12.059	0.122	*	*	Hydrozoa	0.556	0.009	0.027	0.010
Nucellidae	6.658	0.067	2.462	0.340	Gastropoda				
Idoteidae	5.333	0.054	0.916	0.126					
Cryptoniscidae	5.222	0.053	0.027	0.004					
Acari	4.667	0.047	0.002	0.000					
Glyceridae	3.887	0.039	0.757	0.105					
Orbiniidae	3.671	0.037	0.082	0.011					
Copepoda	3.669	0.037	*	*					
Rissoidae	3.017	0.030	0.005	0.001					
Lacunidae	2.667	0.027	0.018	0.002					
Lepetidae	2.222	0.022	0.126	0.017					
Onchidorididae	2.222	0.022	0.011	0.001					
Arachnida	1.667	0.017	*	*					
Cardiidae	1.613	0.016	3.221	0.445					
Echiuridae	1.333	0.013	0.419	0.058					
Nephtyidae	1.045	0.011	1.429	0.197					
Terebellidae	1.017	0.010	1.035	0.143					
Stichaeidae	1.000	0.010	0.777	0.107					
Cylichnidae	0.889	0.009	0.014	0.002					
Lucinidae	0.677	0.007	0.109	0.015					
Lumbrineridae	0.667	0.007	0.019	0.003					
Nereidae	0.334	0.003	*	*					
Ampharetidae	0.334	0.003	*	*					
Sabellidae	0.334	0.003	0.357	0.049					
Caprellidea	0.333	0.003	*	*					

Table D-30. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered estuary sites, 1991. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

P15.1C					P15.1				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	3703.942	75.571	2.326	4.001	Oligochaeta	7408.920	89.899	3.628	2.925
Littorinidae	386.033	7.876	11.511	19.801	Archaeobalanidae	231.418	2.808	17.360	13.995
Mytilidae	196.033	4.000	3.675	6.321	Mytilidae	191.113	2.319	79.791	64.329
Archaeobalanidae	134.531	2.745	17.448	30.014	Nereidae	110.423	1.340	5.441	4.387
Balanidae	92.344	1.884	2.839	4.883	Copepoda	52.830	0.641	0.002	0.001
Amphipoda	91.175	1.860	0.359	0.618	Nemertea	42.670	0.518	0.277	0.224
Bivalvia	48.750	0.995	0.871	1.499	Capitellidae	37.330	0.453	1.280	1.032
Isopoda	38.883	0.793	0.145	0.250	Platyhelminthes	29.670	0.360	0.002	0.001
Myidae	35.642	0.727	16.794	28.888	Diptera	24.452	0.297	0.039	0.031
Nemertea	26.667	0.544	0.240	0.413	Nematoda	24.220	0.294	*	*
Phyllodocidae	24.373	0.497	0.118	0.204	Chironomidae	19.110	0.232	0.011	0.009
Turtoniidae	21.667	0.442	0.035	0.060	Myidae	16.167	0.196	14.119	11.383
Platyhelminthes	20.883	0.426	0.020	0.035	Gastropoda	16.000	0.194	0.112	0.090
Chironomidae	20.750	0.423	*	*	Littorinidae	7.695	0.093	0.785	0.633
Capitellidae	18.532	0.378	*	*	Phyllodocidae	5.917	0.072	0.301	0.243
Cumacea	13.100	0.267	*	*	Paguridae	5.330	0.065	0.603	0.486
Montacutidae	6.485	0.132	0.005	0.009	Balanomorpha	5.000	0.061	0.200	0.161
Tellinidae	6.485	0.132	0.083	0.143	Amphipoda	4.220	0.051	0.043	0.034
Nephtyidae	3.825	0.078	1.630	2.804	Lottidae	3.855	0.047	0.029	0.023
Hesionidae	3.222	0.066	*	*	Polychaeta	2.660	0.032	*	*
Ampharetidae	3.222	0.066	*	*	Balanidae	2.412	0.029	0.015	0.012
Opisthobranchia	2.500	0.051	0.033	0.056					
Diptera	2.217	0.045	*	*					

Table D-30 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, sheltered estuary sites, 1991.

2397C					208/09				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	1500.529	23.583	190.744	26.920	Oligochaeta	1870.630	40.390	1.600	0.391
Oligochaeta	1019.628	16.025	0.717	0.101	Amphipoda	970.884	20.963	4.460	1.091
Littorinidae	962.796	15.132	28.397	4.008	Mytilidae	629.629	13.595	347.024	84.901
Mytilidae	754.599	11.860	450.037	63.515	Littorinidae	416.753	8.998	15.896	3.889
Chironomidae	385.450	6.058	0.086	0.012	Archaeobalanidae	265.623	5.735	27.923	6.832
Nemertea	309.622	4.866	1.303	0.184	Lottidae	123.967	2.677	3.104	0.759
Amphipoda	300.000	4.715	1.141	0.161	Isopoda	97.442	2.104	0.680	0.166
Lottidae	292.201	4.592	7.725	1.090	Platyhelminthes	68.778	1.485	0.068	0.017
Phyllodocidae	184.019	2.892	0.570	0.080	Nematoda	51.331	1.108	*	*
Cumacea	145.361	2.285	0.032	0.004	Nemertea	24.449	0.528	0.446	0.109
Spionidae	91.442	1.437	0.036	0.005	Paguridae	15.111	0.326	0.381	0.093
Isopoda	50.639	0.796	0.547	0.077	Turtoniidae	14.517	0.313	0.010	0.003
Platyhelminthes	49.811	0.783	0.098	0.014	Cumacea	12.447	0.269	*	*
Nereidae	44.695	0.702	0.036	0.005	Syllidae	10.111	0.218	0.011	0.003
Diptera	43.889	0.690	0.011	0.002	Sigalionidae	9.220	0.199	0.001	0.000
Nematoda	31.306	0.492	*	*	Chironomidae	7.333	0.158	0.003	0.001
Paguridae	30.833	0.485	0.418	0.059	Balanidae	7.154	0.154	0.679	0.166
Tellinidae	27.929	0.439	11.772	1.661	Tellinidae	7.111	0.154	0.360	0.088
Balanidae	23.354	0.367	1.729	0.244	Idoteidae	6.889	0.149	0.474	0.116
Idoteidae	19.811	0.311	1.616	0.228	Cirratulidae	5.333	0.115	0.007	0.002
Lacunidae	16.821	0.264	0.065	0.009	Diptera	5.294	0.114	0.004	0.001
Capitellidae	14.817	0.233	0.006	0.001	Grapsidae	4.887	0.106	1.959	0.479
Copepoda	13.889	0.218	*	*	Nereidae	4.667	0.101	0.979	0.240
Turtoniidae	10.195	0.160	0.005	0.001	Nucellidae	0.667	0.014	2.027	0.496
Echiuridae	9.072	0.143	8.229	1.161	Pholididae	0.667	0.014	0.640	0.157
Opisthobranchia	4.620	0.073	0.052	0.007	Chilopoda	0.556	0.012	0.002	0.000
Nucellidae	3.342	0.053	1.773	0.250					
Annelida	2.967	0.047	0.004	0.001					
Stichaeidae	2.967	0.047	1.271	0.179					
Polynoidae	2.961	0.047	0.044	0.006					
Gastropoda	2.961	0.047	0.044	0.006					
Balanomorpha	2.961	0.047	0.027	0.004					
Pseudoscorpionida	2.867	0.045	0.010	0.001					
Montacutidae	2.038	0.032	*	*					
Sabellidae	1.478	0.023	*	*					
Myidae	0.592	0.009	*	*					
Cryptoniscidae	0.278	0.004	*	*					

Table D-31. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered estuary sites, 1989. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

Control Site Not Sampled				50221					
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
					Oligochaeta	6230.000	42.656	2.773	0.514
					Amphipoda	3484.445	23.858	4.968	0.922
					Archaeobalanidae	2251.509	15.416	140.666	26.095
					Nematoda	775.556	5.310	0.060	0.011
					Littorinidae	662.293	4.535	23.033	4.273
					Balanidae	281.824	1.930	36.977	6.860
					Copepoda	262.222	1.795	*	*
					Isopoda	232.222	1.590	1.221	0.227
					Mytilidae	227.778	1.560	327.305	60.719
					Sigalionidae	46.667	0.320	0.017	0.003
					Cumacea	33.333	0.228	*	*
					Phyllodocidae	26.667	0.183	0.193	0.036
					Paguridae	21.111	0.145	0.692	0.128
					Loftiidae	13.893	0.095	0.960	0.178
					Platyhelminthes	13.333	0.091	0.026	0.005
					Idoteidae	13.333	0.091	0.050	0.009
					Chironomidae	10.000	0.068	*	*
					Nereidae	6.667	0.046	0.103	0.019
					Acari	3.333	0.023	*	*
					Insecta	2.222	0.015	*	*
					Chilopoda	2.222	0.015	*	*
					Nemertea	1.111	0.008	*	*
					Turtoniidae	1.111	0.008	*	*
					Arachnida	1.111	0.008	*	*
					Pseudoscorpionida	1.111	0.008	*	*

Table D-31 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered estuary sites, 1989.

Control Site Not Sampled				50981					
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
					Oligochaeta	12047.411	67.860	5.562	1.345
					Amphipoda	2083.711	11.737	5.437	1.315
					Archaeobalanidae	1281.308	7.217	88.629	21.433
					Isopoda	1074.078	6.050	21.087	5.100
					Nematoda	555.167	3.127	0.009	0.002
					Littorinidae	294.559	1.659	10.864	2.627
					Mytilidae	231.089	1.302	268.832	65.012
					Balanidae	48.314	0.272	7.648	1.850
					Paguridae	34.078	0.192	1.877	0.454
					Sigalionidae	33.803	0.190	0.020	0.005
					Platyhelminthes	17.778	0.100	0.012	0.003
					Chironomidae	14.811	0.083	*	*
					Idoteidae	10.000	0.056	0.756	0.183
					Phyllocladidae	6.930	0.039	0.113	0.027
					Copepoda	5.922	0.033	*	*
					Collembola	5.922	0.033	0.006	0.001
					Lottidae	3.963	0.022	0.216	0.052
					Stichaeidae	2.222	0.013	2.437	0.589
					Cumacea	1.111	0.006	*	*
					Cryptoniscidae	1.111	0.006	0.008	0.002

Table D-32. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered estuary sites, 1990 1st visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

C15.1C				C15.1					
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	6776.533	59.705	5.295	1.527	Oligochaeta	6923.912	54.211	3.075	0.466
Nematoda	1144.533	10.084	0.102	0.029	Archaeobalanidae	1769.165	13.852	122.609	18.583
Cumacea	1068.150	9.411	0.308	0.089	Amphipoda	748.257	5.858	2.399	0.364
Archaeobalanidae	503.328	4.435	89.712	25.866	Littorinidae	630.186	4.934	43.390	6.577
Amphipoda	340.106	2.997	1.163	0.335	Nematoda	594.094	4.651	0.035	0.005
Platyhelminthes	242.961	2.141	0.372	0.107	Balanidae	514.189	4.026	63.150	9.571
Littorinidae	216.857	1.911	21.125	6.091	Isopoda	476.923	3.734	2.372	0.360
Chironomidae	168.567	1.485	0.035	0.010	Mytilidae	257.864	2.019	387.861	58.787
Mytilidae	164.272	1.447	202.106	58.272	Cumacea	249.773	1.956	0.043	0.006
Collembola	117.056	1.031	0.049	0.014	Sigalionidae	134.887	1.056	0.036	0.006
Sigalionidae	97.123	0.856	0.059	0.017	Platyhelminthes	124.739	0.977	1.125	0.171
Copepoda	92.222	0.813	0.002	0.000	Lottidae	68.306	0.535	6.639	1.006
Tellinidae	84.739	0.747	9.090	2.621	Cirratulidae	64.000	0.501	0.053	0.008
Isopoda	76.111	0.671	0.557	0.161	Nereidae	44.580	0.349	5.103	0.774
Cirratulidae	47.809	0.421	0.087	0.025	Paguridae	41.000	0.321	3.995	0.606
Balanidae	45.116	0.397	6.514	1.878	Chironomidae	38.644	0.303	0.002	0.000
Pseudoscorpionida	42.039	0.370	0.057	0.016	Nemertea	29.891	0.234	0.658	0.100
Lottidae	34.483	0.304	5.816	1.677	Spionidae	10.667	0.084	*	*
Chilopoda	13.833	0.122	0.017	0.005	Diptera	7.360	0.058	0.008	0.001
Nemertea	12.961	0.114	0.350	0.101	Nucellidae	6.333	0.050	4.389	0.665
Paguridae	12.222	0.108	0.446	0.129	Insecta	5.928	0.046	*	*
Diptera	11.111	0.098	0.072	0.021	Cryptoniscidae	4.556	0.036	0.007	0.001
Idoteidae	7.444	0.066	0.509	0.147	Turtoniidae	4.444	0.035	0.006	0.001
Acari	6.850	0.060	0.001	0.000	Collembola	4.109	0.032	*	*
Coleoptera	6.683	0.059	0.017	0.005	Veneridae	4.000	0.031	11.939	1.810
Phyllodocidae	4.444	0.039	0.149	0.043	Bivalvia	3.553	0.028	*	*
Turtoniidae	4.444	0.039	*	*	Tellinidae	2.667	0.021	0.592	0.090
Nereidae	3.396	0.030	2.539	0.732	Lacunidae	1.916	0.015	0.065	0.010
Gastropoda	1.667	0.015	0.079	0.023	Copepoda	1.333	0.010	*	*
Arachnida	1.272	0.011	0.004	0.001	Idoteidae	1.222	0.010	0.203	0.031
Rissoidae	0.639	0.006	0.001	0.000	Phyllodocidae	0.667	0.005	*	*
Lepidochitonidae	0.556	0.005	0.116	0.033	Syllidae	0.667	0.005	*	*
Cyclopteridae	0.556	0.005	0.087	0.025	Stichaeidae	0.667	0.005	0.020	0.003
					Hydrozoa	0.556	0.004	0.001	0.000
					Spirorbidae	0.556	0.004	*	*
					Acari	0.556	0.004	*	*

Table D-32 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered estuary sites, 1990 1st visit.

50981C					50221				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	1964.556	33.876	0.675	0.160	Oligochaeta	6120.617	70.295	2.613	0.577
Mytilidae	592.272	10.213	299.593	70.862	Nematoda	852.994	9.797	*	*
Archaeobalanidae	547.129	9.434	69.535	16.447	Archaeobalanidae	729.772	8.381	105.180	23.215
Chironomidae	367.922	6.344	0.037	0.009	Amphipoda	286.442	3.290	0.637	0.141
Nematoda	322.856	5.567	0.008	0.002	Littorinidae	188.725	2.167	15.628	3.449
Copepoda	298.667	5.150	0.007	0.002	Balanidae	175.859	2.020	22.926	5.060
Littorinidae	295.261	5.091	24.298	5.747	Isopoda	115.278	1.324	0.253	0.056
Amphipoda	282.000	4.863	0.576	0.136	Mytilidae	104.058	1.195	305.361	67.398
Cumacea	234.444	4.043	0.053	0.013	Chironomidae	57.414	0.659	0.007	0.002
Isopoda	175.667	3.029	3.029	0.716	Coleoptera	44.817	0.515	0.002	0.000
Sigalionidae	124.036	2.139	0.079	0.019	Acari	9.622	0.111	*	*
Cirratulidae	107.732	1.858	0.129	0.030	Platyhelminthes	6.664	0.077	0.009	0.002
Lacunidae	75.500	1.302	0.106	0.025	Diptera	4.250	0.049	0.001	0.000
Diptera	67.333	1.161	0.102	0.024	Chilopoda	2.100	0.024	0.001	0.000
Nemertea	43.778	0.755	0.293	0.069	Idoteidae	1.667	0.019	0.428	0.095
Balanidae	43.094	0.743	6.113	1.446	Sabellidae	1.111	0.013	*	*
Capitellidae	41.327	0.713	0.043	0.010	Collembola	1.111	0.013	*	*
Spionidae	37.423	0.645	0.024	0.006	Arachnida	0.989	0.011	0.002	0.000
Lottidae	26.572	0.458	5.829	1.379	Lacunidae	0.833	0.010	0.009	0.002
Orbiniidae	23.231	0.401	0.300	0.071	Turtoniidae	0.833	0.010	*	*
Platyhelminthes	17.889	0.308	0.016	0.004	Bryozoa	0.833	0.010	0.006	0.001
Phyllococidae	17.667	0.305	0.038	0.009	Nemertea	0.556	0.006	0.003	0.001
Paguridae	13.778	0.238	2.064	0.488	Cryptoniscidae	0.556	0.006	0.007	0.001
Tellinidae	11.403	0.197	1.703	0.403					
Annelida	10.889	0.188	0.011	0.003					
Polynoidae	10.229	0.176	0.007	0.002					
Turtoniidae	9.735	0.168	0.002	0.000					
Pseudoscorpionida	7.222	0.125	0.008	0.002					
Sabellidae	6.350	0.109	*	*					
Echiuridae	5.333	0.092	3.638	0.861					
Idoteidae	3.889	0.067	1.028	0.243					
Coleoptera	3.333	0.057	*	*					
Stichaeidae	2.889	0.050	1.082	0.256					
Acari	2.222	0.038	*	*					
Collembola	2.222	0.038	0.001	0.000					
Ostracoda	1.000	0.017	*	*					
Nereidae	0.691	0.012	0.639	0.151					
Holothuroidea	0.667	0.012	0.831	0.197					
Actiniidae	0.556	0.010	*	*					
Pholididae	0.556	0.010	0.886	0.209					

Table D-32 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered estuary sites, 1990 1st visit.

50981C					50981				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	1964.556	33.876	0.675	0.160	Oligochaeta	7416.300	78.158	4.016	1.842
Mytilidae	592.272	10.213	299.593	70.862	Nematoda	820.372	8.646	0.016	0.007
Archaeobalanidae	547.129	9.434	69.535	16.447	Amphipoda	500.000	5.269	0.708	0.325
Chironomidae	367.922	6.344	0.037	0.009	Archaeobalanidae	345.796	3.644	41.315	18.955
Nematoda	322.856	5.567	0.008	0.002	Isopoda	105.556	1.112	1.032	0.473
Copepoda	298.667	5.150	0.007	0.002	Mytilidae	73.341	0.773	155.127	71.170
Littorinidae	295.261	5.091	24.298	5.747	Littorinidae	66.433	0.700	5.337	2.448
Amphipoda	282.000	4.863	0.576	0.136	Balanidae	41.060	0.433	7.493	3.437
Cumacea	234.444	4.043	0.053	0.013	Cumacea	20.372	0.215	0.007	0.003
Isopoda	175.667	3.029	3.029	0.716	Sigalionidae	17.646	0.186	0.011	0.005
Sigalionidae	124.036	2.139	0.079	0.019	Platyhelminthes	15.928	0.168	0.003	0.002
Cirratulidae	107.732	1.858	0.129	0.030	Copepoda	13.889	0.146	*	*
Lacunidae	75.500	1.302	0.106	0.025	Turtoniidae	12.214	0.129	0.009	0.004
Diptera	67.333	1.161	0.102	0.024	Tellinidae	9.628	0.101	1.304	0.598
Nemertea	43.778	0.755	0.293	0.069	Idoteidae	7.039	0.074	0.525	0.241
Balanidae	43.094	0.743	6.113	1.446	Nemertea	4.072	0.043	0.037	0.017
Capitellidae	41.327	0.713	0.043	0.010	Diptera	3.333	0.035	0.009	0.004
Spionidae	37.423	0.645	0.024	0.006	Lottidae	2.979	0.031	0.696	0.319
Lottidae	26.572	0.458	5.829	1.379	Cirratulidae	2.778	0.029	0.002	0.001
Orbiniidae	23.231	0.401	0.300	0.071	Chironomidae	2.222	0.023	*	*
Platyhelminthes	17.889	0.308	0.016	0.004	Gastropoda	1.111	0.012	0.003	0.002
Phyllodocidae	17.667	0.305	0.038	0.009	Lacunidae	0.776	0.008	0.011	0.005
Paguridae	13.778	0.238	2.064	0.488	Phyllodocidae	0.750	0.008	0.017	0.008
Tellinidae	11.403	0.197	1.703	0.403	Spionidae	0.750	0.008	0.016	0.007
Annelida	10.889	0.188	0.011	0.003	Insecta	0.739	0.008	0.001	0.000
Polynoidae	10.229	0.176	0.007	0.002	Capitellidae	0.564	0.006	0.001	0.001
Turtoniidae	9.735	0.168	0.002	0.000	Nereidae	0.561	0.006	0.257	0.118
Pseudoscorpionida	7.222	0.125	0.008	0.002	Annelida	0.556	0.006	*	*
Sabellidae	6.350	0.109	*	*	Pseudoscorpionida	0.556	0.006	*	*
Echiuridae	5.333	0.092	3.638	0.861	Balanomorpha	0.556	0.006	0.002	0.001
Idoteidae	3.889	0.067	1.028	0.243	Paguridae	0.556	0.006	0.012	0.006
Coleoptera	3.333	0.057	*	*	Acari	0.183	0.002	*	*
Stichaeidae	2.889	0.050	1.082	0.256	Cryptoniscidae	0.183	0.002	*	*
Acari	2.222	0.038	*	*					
Collembola	2.222	0.038	0.001	0.000					
Ostracoda	1.000	0.017	*	*					
Nereidae	0.691	0.012	0.639	0.151					
Holothuroidea	0.667	0.012	0.831	0.197					
Actiniidae	0.556	0.010	*	*					
Pholididae	0.556	0.010	0.886	0.209					

Table D-33. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered estuary sites, 1990 2nd visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

C15.1C

C15.1

Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	2777.116	62.421	1.752	1.375	Oligochaeta	4223.000	36.173	2.395	0.242
Amphipoda	441.294	9.919	0.617	0.484	Amphipoda	2385.556	20.434	2.499	0.253
Nematoda	335.294	7.536	*	*	Archaeobalanidae	2061.194	17.656	147.869	14.954
Archaeobalanidae	215.020	4.833	3.815	2.995	Littorinidae	905.578	7.757	63.436	6.415
Mytilidae	138.183	3.106	92.930	72.944	Balanidae	751.584	6.438	72.132	7.295
Littorinidae	125.189	2.814	24.417	19.166	Mytilidae	503.889	4.316	678.045	68.573
Chironomidae	94.892	2.133	0.004	0.003	Isopoda	442.444	3.790	5.605	0.567
Platyhelminthes	71.483	1.607	0.033	0.026	Nematoda	190.333	1.630	*	*
Isopoda	58.328	1.311	0.367	0.288	Lottiidae	79.967	0.685	9.228	0.933
Pseudoscorpionida	51.667	1.161	0.129	0.101	Platyhelminthes	27.444	0.235	0.013	0.001
Diptera	45.225	1.017	0.090	0.070	Cryptoniscidae	20.667	0.177	0.043	0.004
Collembola	39.633	0.891	0.015	0.012	Nereidae	19.111	0.164	1.470	0.149
Chilopoda	18.339	0.412	0.053	0.042	Lacunidae	9.562	0.082	0.038	0.004
Coleoptera	11.106	0.250	*	*	Idoteidae	9.111	0.078	2.287	0.231
Balanidae	7.941	0.178	1.013	0.795	Paguridae	8.889	0.076	0.457	0.046
Lottiidae	6.111	0.137	1.415	1.111	Chironomidae	5.778	0.049	*	*
Acan	3.517	0.079	*	*	Nucellidae	5.447	0.047	3.179	0.322
Nemertea	1.667	0.037	0.117	0.092	Cumacea	5.333	0.046	*	*
Idoteidae	1.667	0.037	0.183	0.144	Turtoniidae	5.111	0.044	0.004	0.000
Paguridae	1.667	0.037	0.005	0.004	Sigalionidae	3.778	0.032	*	*
Pycnogonida	1.483	0.033	*	*	Nemertea	3.444	0.030	0.019	0.002
Nereidae	1.111	0.025	0.315	0.247	Coleoptera	3.333	0.029	0.001	0.000
Balanomorpha	1.111	0.025	0.128	0.101	Stichaeidae	2.000	0.017	0.075	0.008
					Spionidae	0.667	0.006	*	*
					Cirratulidae	0.667	0.006	0.001	0.000
					Diptera	0.556	0.005	*	*

Table D-33 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered estuary sites, 1990 2nd visit.

50981C					50221				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	3343.693	46.313	145.197	14.611	Oligochaeta	4022.321	49.851	1.595	0.411
Oligochaeta	1210.294	16.764	0.435	0.044	Amphipoda	1796.588	22.266	3.031	0.780
Mytilidae	867.480	12.015	774.701	77.957	Archaeobalanidae	656.735	8.139	83.231	21.422
Littorinidae	390.831	5.413	41.244	4.150	Nematoda	535.904	6.642	0.010	0.003
Amphipoda	243.514	3.373	0.551	0.055	Littorinidae	292.029	3.619	24.017	6.182
Cirratulidae	194.664	2.696	0.306	0.031	Balanidae	141.949	1.759	19.976	5.141
Chironomidae	147.389	2.041	0.058	0.006	Mytilidae	140.212	1.738	252.491	64.986
Balanidae	135.177	1.872	16.427	1.653	Isopoda	138.967	1.722	2.017	0.519
Nematoda	132.181	1.831	0.008	0.001	Chironomidae	135.333	1.677	0.029	0.007
Isopoda	110.367	1.529	1.533	0.154	Diptera	66.775	0.828	0.013	0.003
Sigalionidae	63.310	0.877	0.023	0.002	Platyhelminthes	52.575	0.652	0.019	0.005
Nemertea	55.520	0.769	0.352	0.035	Coleoptera	26.958	0.334	*	*
Diptera	52.150	0.722	0.085	0.009	Collembola	18.129	0.225	*	*
Cumacea	50.163	0.695	0.001	0.000	Idoteidae	13.750	0.170	1.821	0.469
Lottidae	47.736	0.661	3.152	0.317	Phyllococidae	8.750	0.108	0.246	0.063
Acari	45.556	0.631	0.003	0.000	Sigalionidae	5.714	0.071	0.005	0.001
Platyhelminthes	28.776	0.399	0.038	0.004	Cumacea	3.750	0.046	*	*
Capitellidae	21.333	0.295	0.007	0.001	Acari	2.967	0.037	*	*
Spionidae	15.470	0.214	*	*	Capitellidae	2.858	0.035	0.003	0.001
Coleoptera	14.393	0.199	*	*	Pseudoscorpionida	1.667	0.021	0.007	0.002
Phyllococidae	11.158	0.155	0.022	0.002	Spionidae	1.429	0.018	*	*
Tellinidae	7.776	0.108	1.419	0.143	Cryptoniscidae	1.250	0.015	*	*
Paguridae	7.333	0.102	0.547	0.055	Paguridae	1.250	0.015	0.015	0.004
Echiuridae	4.664	0.065	1.161	0.117	Chilopoda	0.833	0.010	0.003	0.001
Sabellidae	3.553	0.049	*	*					
Pseudoscorpionida	3.333	0.046	0.002	0.000					
Orbiniidae	2.500	0.035	0.052	0.005					
Idoteidae	1.939	0.027	0.017	0.002					
Arachnida	1.667	0.023	*	*					
Stichaeidae	1.667	0.023	1.148	0.116					
Pholididae	1.667	0.023	0.239	0.024					
Copepoda	0.667	0.009	*	*					
Collembola	0.667	0.009	*	*					
Nucellidae	0.578	0.008	0.958	0.096					
Myidae	0.556	0.008	4.065	0.409					

Table D-33 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered estuary sites, 1990 2nd visit.

50981C					50981				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Archaeobalanidae	3343.693	46.313	145.197	14.611	Oligochaeta	2820.278	70.846	1.398	0.480
Oligochaeta	1210.294	16.764	0.435	0.044	Amphipoda	392.589	9.862	1.906	0.654
Mytilidae	867.480	12.015	774.701	77.957	Archaeobalanidae	270.689	6.800	38.050	13.062
Littorinidae	390.831	5.413	41.244	4.150	Nematoda	120.833	3.035	*	*
Amphipoda	243.514	3.373	0.551	0.055	Mytilidae	115.000	2.889	237.216	81.429
Cirratulidae	194.664	2.696	0.306	0.031	Isopoda	87.222	2.191	1.760	0.604
Chironomidae	147.389	2.041	0.058	0.006	Littorinidae	85.556	2.149	6.478	2.224
Balanidae	135.177	1.872	16.427	1.653	Chironomidae	51.578	1.296	0.013	0.005
Nematoda	132.181	1.831	0.008	0.001	Balanidae	18.211	0.457	2.452	0.842
Isopoda	110.367	1.529	1.533	0.154	Diptera	8.889	0.223	*	*
Sigalionidae	63.310	0.877	0.023	0.002	Nereidae	3.333	0.084	1.030	0.354
Nemertea	55.520	0.769	0.352	0.035	Idoteidae	2.500	0.063	0.624	0.214
Diptera	52.150	0.722	0.085	0.009	Paguridae	1.944	0.049	0.387	0.133
Cumacea	50.163	0.695	0.001	0.000	Platyhelminthes	1.111	0.028	*	*
Lottidae	47.736	0.661	3.152	0.317	Turtoniidae	1.111	0.028	0.001	0.000
Acari	45.556	0.631	0.003	0.000					
Platyhelminthes	28.776	0.399	0.038	0.004					
Capitellidae	21.333	0.295	0.007	0.001					
Spionidae	15.470	0.214	*	*					
Coleoptera	14.393	0.199	*	*					
Phyllodoctidae	11.158	0.155	0.022	0.002					
Tellinidae	7.776	0.108	1.419	0.143					
Paguridae	7.333	0.102	0.547	0.055					
Echiuridae	4.664	0.065	1.161	0.117					
Sabellidae	3.553	0.049	*	*					
Pseudoscorpionida	3.333	0.046	0.002	0.000					
Orbinidae	2.500	0.035	0.052	0.005					
Idoteidae	1.939	0.027	0.017	0.002					
Arachnida	1.667	0.023	*	*					
Stichaeidae	1.667	0.023	1.148	0.116					
Pholididae	1.667	0.023	0.239	0.024					
Copepoda	0.667	0.009	*	*					
Collembola	0.667	0.009	*	*					
Nucellidae	0.578	0.008	0.958	0.096					
Myidae	0.556	0.008	4.065	0.409					

Table D-34. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered estuary sites, 1991. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

C15.1C					C15.1				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	6364.583	49.884	5.060	3.897	Oligochaeta	7476.900	46.848	3.647	0.433
Collembola	3677.358	28.822	0.214	0.165	Archaeobalanidae	1893.217	11.862	110.446	13.100
Archaeobalanidae	553.326	4.337	28.555	21.988	Littorinidae	1800.934	11.284	89.348	10.597
Platyhelminthes	537.908	4.216	0.830	0.639	Amphipoda	1488.944	9.329	9.772	1.159
Nematoda	463.892	3.636	0.001	0.000	Balanidae	938.711	5.882	51.222	6.075
Amphipoda	268.050	2.101	0.700	0.539	Isopoda	934.444	5.855	10.193	1.209
Chironomidae	210.000	1.646	0.087	0.067	Mytilidae	531.602	3.331	546.849	64.861
Mytilidae	189.067	1.482	69.211	53.294	Nematoda	484.483	3.036	0.008	0.001
Littorinidae	178.122	1.396	12.056	9.283	Sigalionidae	105.850	0.663	0.026	0.003
Pseudoscorpionida	105.550	0.827	0.190	0.146	Lottidae	80.304	0.503	12.150	1.441
Diptera	49.583	0.389	0.116	0.089	Platyhelminthes	68.850	0.431	0.021	0.003
Coleoptera	35.967	0.282	0.020	0.015	Turtoniidae	40.448	0.253	0.014	0.002
Balanidae	30.299	0.237	0.775	0.597	Nereidae	37.500	0.235	3.655	0.434
Isopoda	19.442	0.152	0.077	0.060	Nemertea	19.628	0.123	0.236	0.028
Turtoniidae	18.708	0.147	0.009	0.007	Idoteidae	17.778	0.111	1.597	0.189
Lottidae	17.145	0.134	10.484	8.073	Chironomidae	9.722	0.061	0.004	0.000
Acari	10.833	0.085	*	*	Lacunidae	7.829	0.049	0.065	0.008
Copepoda	8.875	0.070	*	*	Coleoptera	5.111	0.032	*	*
Idoteidae	7.500	0.059	0.841	0.647	Diptera	5.000	0.031	0.049	0.006
Chilopoda	5.833	0.046	0.010	0.008	Collembola	4.806	0.030	*	*
Nereidae	2.500	0.020	0.602	0.463	Cumacea	3.700	0.023	*	*
Cumacea	1.667	0.013	*	*	Nucellidae	2.076	0.013	3.801	0.451
Nemertea	0.833	0.007	0.003	0.003	Hydrozoa	1.667	0.010	*	*
Polychaeta	0.833	0.007	0.012	0.009	Sabellidae	0.556	0.003	*	*
Lacunidae	0.833	0.007	0.013	0.010					

Table D-34 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered estuary sites, 1991.

50981C					50221				
TAXA	ABUNDANCE (no m ⁻²)	BIOMASS (%)	ABUNDANCE (no m ⁻²)	BIOMASS (%)	TAXA	ABUNDANCE (no m ⁻²)	BIOMASS (%)	ABUNDANCE (g m ⁻²)	BIOMASS (%)
Oligochaeta	3241.017	31.242	3.388	0.770	Oligochaeta	5217.500	50.901	3.247	1.197
Archaeobalanidae	1753.174	16.900	97.905	22.241	Amphipoda	976.122	9.523	4.546	1.676
Cumacea	1018.700	9.827	0.237	0.054	Nematoda	783.689	7.646	0.016	0.006
Mytilidae	909.457	8.767	253.237	57.528	Archaeobalanidae	717.960	7.004	95.079	35.047
Littorinidae	510.668	4.923	46.061	10.464	Cumacea	510.744	4.983	0.117	0.043
Turtoniidae	401.656	3.872	0.202	0.046	Sigalionidae	422.758	4.124	0.226	0.083
Cirratulidae	331.322	3.194	0.506	0.115	Isopoda	376.289	3.671	4.530	1.670
Nematoda	318.706	3.072	0.018	0.004	Balanidae	322.868	3.150	25.066	9.239
Sigalionidae	226.032	2.179	0.096	0.022	Littorinidae	295.037	2.878	10.467	3.858
Copepoda	201.111	1.938	0.001	0.000	Mytilidae	171.208	1.670	117.179	43.193
Annelida	193.711	1.867	0.239	0.054	Chironomidae	85.861	0.838	0.059	0.022
Amphipoda	186.383	1.797	0.234	0.053	Turtoniidae	69.074	0.674	0.037	0.014
Platyhelminthes	138.066	1.331	0.218	0.050	Diptera	45.089	0.440	0.071	0.026
Spionidae	114.661	1.105	0.039	0.009	Capitellidae	40.373	0.394	0.237	0.087
Balanidae	104.321	1.006	5.042	1.145	Copepoda	35.556	0.347	*	*
Capitellidae	102.264	0.986	0.059	0.013	Tellinidae	22.238	0.217	3.832	1.412
Lottidae	99.455	0.959	6.956	1.580	Rissoidae	20.657	0.202	0.047	0.017
Isopoda	99.356	0.958	0.929	0.211	Nemertea	17.767	0.173	0.173	0.064
Nemertea	86.111	0.830	0.801	0.182	Collembola	17.739	0.173	0.003	0.001
Tellinidae	69.378	0.669	12.467	2.832	Spionidae	16.673	0.163	1.017	0.375
Chironomidae	61.389	0.592	0.022	0.005	Nereidae	12.938	0.126	3.063	1.129
Phyllodocidae	56.846	0.548	0.546	0.124	Lottidae	11.706	0.114	1.419	0.523
Diptera	42.589	0.411	0.206	0.047	Platyhelminthes	10.750	0.105	0.018	0.007
Pseudoscorpionida	28.889	0.278	0.047	0.011	Coleoptera	8.700	0.085	*	*
Coleoptera	16.667	0.161	0.009	0.002	Chilopoda	7.583	0.074	0.035	0.013
Sabellidae	13.114	0.126	0.003	0.001	Lacunidae	6.667	0.065	0.013	0.005
Collembola	12.778	0.123	0.004	0.001	Acari	6.117	0.060	*	*
Orbiniidae	8.151	0.079	0.189	0.043	Phyllodocidae	4.558	0.044	0.413	0.152
Rissoidae	5.901	0.057	0.012	0.003	Annelida	4.433	0.043	*	*
Nereidae	4.700	0.045	1.198	0.272	Paguridae	4.433	0.043	0.022	0.008
Arenicolidae	3.333	0.032	0.002	0.000	Pseudoscorpionida	3.522	0.034	0.001	0.001
Lacunidae	2.942	0.028	0.031	0.007	Idoteidae	3.428	0.033	0.357	0.132
Echiuridae	2.778	0.027	0.921	0.209	Polychaeta	0.183	0.002	*	*
Montacutidae	1.795	0.017	0.019	0.004					
Idoteidae	1.667	0.016	0.269	0.061					
Myidae	1.398	0.013	5.429	1.233					
Paguridae	1.111	0.011	0.010	0.002					
Veneridae	0.804	0.008	1.940	0.441					
Polynoidae	0.556	0.005	0.087	0.020					
Stichaeidae	0.556	0.005	0.617	0.140					
Acari	0.278	0.003	*	*					

Table D-34 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for CIK, sheltered estuary sites, 1991.

50981C					50981				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	3241.017	31.242	3.388	0.770	Oligochaeta	5263.346	48.786	3.726	0.889
Archaeobalanidae	1753.174	16.900	97.905	22.241	Amphipoda	1390.747	12.891	6.927	1.652
Cumacea	1018.700	9.820	0.237	0.054	Nematoda	1337.553	12.398	0.022	0.005
Mytilidae	909.457	8.767	253.237	57.528	Archaeobalanidae	796.809	7.386	97.367	23.222
Littorinidae	510.668	4.923	46.061	10.464	Cumacea	455.778	4.225	0.091	0.022
Turtoniidae	401.656	3.872	0.202	0.046	Isopoda	444.002	4.115	5.618	1.340
Cirratulidae	331.322	3.194	0.506	0.115	Balanidae	246.676	2.286	17.521	4.179
Nematoda	318.706	3.072	0.018	0.004	Mytilidae	243.530	2.257	254.683	60.743
Sigalionidae	226.032	2.179	0.096	0.022	Littorinidae	206.164	1.911	9.726	2.320
Copepoda	201.111	1.939	0.001	0.000	Sigalionidae	92.628	0.859	0.051	0.012
Annelida	193.711	1.867	0.239	0.054	Platyhelminthes	52.669	0.488	0.049	0.012
Amphipoda	186.383	1.797	0.234	0.053	Idoteidae	51.814	0.480	3.145	0.750
Platyhelminthes	138.056	1.331	0.218	0.050	Chironomidae	34.049	0.316	0.017	0.004
Spionidae	114.661	1.105	0.039	0.009	Nemertea	29.703	0.275	0.518	0.124
Balanidae	104.321	1.006	5.042	1.145	Diptera	21.393	0.198	0.041	0.010
Capitellidae	102.264	0.986	0.059	0.013	Lottidae	19.315	0.179	2.856	0.681
Lottidae	99.455	0.959	6.956	1.580	Turtoniidae	16.296	0.151	0.010	0.002
Isopoda	99.356	0.958	0.929	0.211	Tellinidae	14.553	0.135	1.345	0.321
Nemertea	86.111	0.830	0.801	0.182	Paguridae	12.000	0.111	0.626	0.149
Tellinidae	69.378	0.669	12.467	2.832	Copepoda	8.887	0.082	*	*
Chironomidae	61.389	0.592	0.022	0.005	Nereidae	6.739	0.062	2.836	0.676
Phyllodocidae	56.846	0.548	0.546	0.124	Phyllodocidae	5.556	0.051	0.107	0.026
Diptera	42.589	0.411	0.206	0.047	Spionidae	5.333	0.049	0.001	0.000
Pseudoscorpionida	28.889	0.278	0.047	0.011	Cirratulidae	5.333	0.049	0.003	0.001
Coleoptera	16.667	0.161	0.009	0.002	Veneridae	4.609	0.043	9.752	2.326
Sabellidae	13.114	0.126	0.003	0.001	Collembola	4.191	0.039	*	*
Collembola	12.778	0.123	0.004	0.001	Capitellidae	4.000	0.037	0.001	0.000
Orbiniidae	8.151	0.079	0.189	0.043	Rissoidae	3.637	0.034	0.001	0.000
Rissoidae	5.901	0.057	0.012	0.003	Acari	2.887	0.027	*	*
Nereidae	4.700	0.045	1.198	0.272	Lacunidae	2.637	0.024	0.026	0.006
Arenicolidae	3.333	0.032	0.002	0.000	Nucellidae	2.565	0.024	2.190	0.522
Lacunidae	2.942	0.028	0.031	0.007	Coleoptera	0.887	0.008	*	*
Echiuridae	2.778	0.027	0.921	0.209	Trochidae	0.747	0.007	0.020	0.005
Montacutidae	1.795	0.017	0.019	0.004	Spirorbidae	0.667	0.006	*	*
Idoteidae	1.667	0.016	0.269	0.061	Bryozoa	0.667	0.006	0.001	0.000
Myidae	1.398	0.013	5.429	1.233	Bivalvia	0.372	0.003	*	*
Paguridae	1.111	0.011	0.010	0.002					
Veneridae	0.804	0.008	1.940	0.441					
Polynoidae	0.556	0.005	0.087	0.020					
Stichaeidae	0.556	0.005	0.617	0.140					
Acari	0.278	0.003	*	*					

Table D-35. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, exposed rocky sites, 1989. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

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Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Littorinidae	2089.083	36.530	86.249	17.560	Mytilidae	3650.000	43.184	1447.565	87.288
Oligochaeta	1461.111	25.549	1.319	0.269	Balanidae	1894.604	22.415	121.910	7.351
Mytilidae	677.778	11.852	351.216	71.509	Platyhelminthes	581.111	6.875	1.407	0.085
Balanidae	324.444	5.673	25.031	5.096	Oligochaeta	508.333	6.014	0.098	0.006
Amphipoda	300.000	5.246	1.094	0.223	Littorinidae	426.421	5.045	4.133	0.249
Lottidae	195.810	3.424	9.881	2.012	Archaeobalanidae	323.174	3.824	60.403	3.642
Nematoda	101.111	1.768	0.001	0.000	Lacunidae	229.928	2.720	1.123	0.068
Sigalionidae	100.000	1.749	0.052	0.011	Lottidae	186.243	2.203	4.871	0.294
Turtoniidae	87.778	1.535	0.078	0.016	Trochidae	157.965	1.869	0.404	0.024
Paguridae	81.111	1.418	3.419	0.696	Cirratulidae	78.333	0.927	0.090	0.005
Archaeobalanidae	77.778	1.360	2.817	0.573	Syllidae	65.000	0.769	0.077	0.005
Platyhelminthes	57.778	1.010	0.053	0.011	Diptera	61.111	0.723	0.242	0.015
Nemertea	34.444	0.602	0.926	0.188	Amphipoda	51.667	0.611	0.143	0.009
Syllidae	31.689	0.554	0.023	0.005	Nemertea	45.556	0.539	0.593	0.036
Idoteidae	27.778	0.486	1.957	0.398	Copepoda	45.000	0.532	*	*
Nereidae	14.711	0.257	0.003	0.001	Onchidiidae	40.730	0.482	0.548	0.033
Sabellidae	7.933	0.139	*	*	Nematoda	21.667	0.256	*	*
Isopoda	6.667	0.117	0.001	0.000	Spirorbidae	20.000	0.237	0.002	0.000
Diptera	6.667	0.117	0.006	0.001	Turtoniidae	10.000	0.118	0.015	0.001
Nerillidae	5.667	0.099	*	*	Isopoda	8.333	0.099	0.012	0.001
Chironomidae	5.556	0.097	0.001	0.000	Paguridae	8.333	0.099	0.890	0.054
Rissoidae	4.664	0.082	0.008	0.002	Nucellidae	7.417	0.088	12.395	0.747
Nucellidae	4.664	0.082	6.630	1.350	Chironomidae	6.667	0.079	*	*
Collembola	3.333	0.058	0.001	0.000	Acari	3.333	0.039	*	*
Trochidae	2.397	0.042	0.062	0.013	Caprellidea	3.333	0.039	*	*
Lacunidae	2.268	0.040	0.004	0.001	Asteriidae	3.333	0.039	0.907	0.055
Porifera	2.222	0.039	0.002	0.000	Siphonariidae	1.855	0.022	0.238	0.014
Stichaeidae	2.222	0.039	0.317	0.064	Actiniidae	1.667	0.020	0.042	0.003
Pseudoscorpionida	1.111	0.019	*	*	Nereidae	1.667	0.020	*	*
Ostracoda	1.111	0.019	*	*	Pycnogonida	1.667	0.020	*	*
					Balanomorpha	1.667	0.020	0.013	0.001
					Tanaidacea	1.667	0.020	*	*
					Holothuroidea	1.667	0.020	0.075	0.005
					Stichaeidae	1.667	0.020	0.188	0.011
					Cryptoniscidae	1.111	0.013	*	*

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Taxa	Abundance		Biomass		Taxa	Taxa		Taxa	
	($\times 10^3$)	(%)	($\times 10^3$)	(%)		($\times 10^3$)	(%)	($\times 10^3$)	(%)
					Littorinidae	574.444	14.510	25.616	8.502
					Nematoda	550.000	13.893	0.009	0.003
					Balanidae	368.568	9.310	55.111	18.293
					Amphipoda	361.111	9.122	0.932	0.309
					Mytilidae	352.650	8.908	115.873	38.461
					Opheliidae	277.243	7.003	0.419	0.139
					Lottiidae	165.189	4.173	3.157	1.048
					Spirobridae	152.517	3.853	0.095	0.032
					Chironomidae	120.000	3.031	0.011	0.004
					Lacunidae	107.267	2.710	0.378	0.126
					Oligochaeta	98.889	2.498	0.041	0.014
					Copepoda	95.556	2.414	*	*
					Rissoidae	78.461	1.982	0.075	0.025
					Archaeobalanidae	78.100	1.973	3.522	1.169
					Isopoda	77.778	1.965	1.024	0.340
					Turtoniidae	75.898	1.917	0.023	0.008
					Foraminiferida	67.778	1.712	0.050	0.017
					Syllidae	51.211	1.294	0.022	0.007
					Paguridae	46.687	1.179	4.064	1.349
					Spionidae	45.650	1.153	0.075	0.025
					Trochidae	40.102	1.013	0.031	0.010
					Buccinidae	33.119	0.837	4.036	1.340
					Nemertea	23.333	0.589	0.033	0.011
					Nereidae	15.569	0.393	0.029	0.010
					Sabellidae	13.342	0.337	0.002	0.001
					Idoteidae	10.000	0.253	0.404	0.134
					Majidae	7.778	0.196	9.640	3.200
					Sigalionidae	6.667	0.168	0.003	0.001
					Montacutidae	5.698	0.144	0.015	0.005
					Tanaidacea	5.556	0.140	*	*
					Hiatellidae	4.530	0.114	0.066	0.022
					Phyllodocidae	4.453	0.112	0.003	0.001
					Actiniidae	4.444	0.112	71.920	23.872
					Stichaeidae	4.444	0.112	3.499	1.161
					Tellinidae	2.280	0.058	0.015	0.005
					Veneridae	2.279	0.058	0.123	0.041
					Polynoidae	2.227	0.056	0.060	0.020
					Cirratulidae	2.227	0.056	*	*
					Platyhelminthes	2.222	0.056	*	*
					Pycnogonida	2.222	0.056	0.006	0.002
					Gumacea	2.222	0.056	*	*
					Diptera	2.222	0.056	0.013	0.004
					Caecidae	1.743	0.044	0.001	0.000
					Columbellidae	1.743	0.044	0.054	0.018
					Pyramidellidae	1.743	0.044	0.024	0.008
					Onchidiidae	1.743	0.044	0.005	0.002
					Orbiniidae	1.113	0.028	*	*
					Ampharetidae	1.113	0.028	0.002	0.001
					Terebellidae	1.111	0.028	0.014	0.005
					Mopaliidae	1.111	0.028	0.296	0.098
					Balanomorpha	1.111	0.028	0.006	0.002
					Cryptoniscidae	1.111	0.028	*	*
					Cancridae	1.111	0.028	0.401	0.133
					Bryozoa	1.111	0.028	0.071	0.024
					Ophiuroidea	1.111	0.028	*	*

Table D-36. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, exposed rocky sites, 1990 1st visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

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Taxa	Abundance	Biomass	Taxa	Abundance	Biomass
Amphipoda	7785.281	40.239	Mytilidae	1414.154	30.635
Oligochaeta	2729.350	14.107	Archaeobalanidae	684.279	14.824
Archaeobalanidae	2697.614	13.943	Balanidae	440.166	9.535
Mytilidae	2217.597	11.462	Chironomidae	326.667	7.077
Sabellidae	1489.442	7.698	Oligochaeta	261.111	5.657
Littorinidae	811.762	4.196	Littorinidae	245.558	5.320
Balanidae	465.631	2.407	Amphipoda	215.556	4.670
Isopoda	256.111	1.324	Turtoniidae	197.511	4.279
Loftiidae	202.529	1.047	Lottiidae	185.665	4.022
Syllidae	131.389	0.679	Nematoda	108.333	2.347
Diptera	111.667	0.577	Copepoda	104.444	2.263
Nematoda	80.278	0.415	Syllidae	89.444	1.938
Nemertea	74.722	0.386	Lacunidae	75.597	1.638
Chironomidae	67.222	0.347	Spirorbidae	70.000	1.516
Idoteidae	46.850	0.242	Coleoptera	40.556	0.879
Onchidiidae	39.167	0.202	Nucellidae	33.617	0.728
Platyhelminthes	35.000	0.181	Sabellidae	32.778	0.710
Coleoptera	33.333	0.172	Isopoda	21.667	0.469
Spirorbidae	23.333	0.121	Paguridae	13.889	0.301
Nucellidae	8.333	0.043	Diptera	10.000	0.217
Paguridae	8.333	0.043	Asteroidea	8.889	0.193
Siphonariidae	6.972	0.036	Nemertea	8.333	0.181
Spionidae	6.667	0.034	Acari	2.778	0.060
Cyclopteridae	4.442	0.023	Idoteidae	2.778	0.060
Cerithiidae	3.333	0.017	Cryptoniscidae	2.778	0.060
Trochidae	1.698	0.009	Siphonariidae	2.339	0.051
Turtoniidae	1.667	0.009	Rissoidae	2.222	0.048
Pseudoscorpionida	1.667	0.009	Columbellidae	2.222	0.048
Acari	1.667	0.009	Pseudoscorpionida	2.222	0.048
Copepoda	0.833	0.004	Nereidae	1.667	0.036
Forifera	0.833	0.004	Skeneopsidae	1.667	0.036
Cryptoniscidae	0.833	0.004	Hiatellidae	1.113	0.024
Stichaeidae	0.833	0.004	Spionidae	1.111	0.024
Cottidae	0.556	0.003	Platyhelminthes	0.556	0.012
			Phyllococidae	0.556	0.012
			Trochidae	0.556	0.012
			Caecidae	0.556	0.012
			Balanomorpha	0.556	0.012
			Cumacea	0.556	0.012
			Bryozoa	0.556	0.012
			Cottidae	0.556	0.012
			Stichaeidae	0.556	0.012

Table D-36 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, exposed rocky sites, 1990 1st visit.

1642C

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Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Balanidae	1578.344	38.859	185.305	36.219	Balanidae	24334.494	70.394	587.817	36.675
Littorinidae	1106.036	27.231	27.307	5.337	Mytilidae	4290.833	12.412	741.956	46.292
Mytilidae	788.889	19.423	270.163	52.806	Littorinidae	4119.164	11.916	17.174	1.072
Archaeobalanidae	232.010	5.712	15.394	3.009	Cryptoniscidae	415.833	1.203	0.226	0.014
Lottiidae	170.629	4.201	8.357	1.633	Lottiidae	374.980	1.085	9.943	0.620
Platyhelminthes	33.333	0.821	0.035	0.007	Archaeobalanidae	289.670	0.838	60.694	3.787
Oligochaeta	27.667	0.681	0.007	0.001	Syllidae	228.333	0.661	1.532	0.096
Cirratulidae	22.556	0.555	0.041	0.008	Chironomidae	90.000	0.260	0.005	0.000
Amphipoda	21.333	0.525	0.182	0.036	Oligochaeta	80.833	0.234	0.017	0.001
Paguridae	14.111	0.347	0.916	0.179	Nemertea	75.000	0.217	0.768	0.048
Cryptoniscidae	12.333	0.304	0.011	0.002	Diptera	72.500	0.210	0.165	0.010
Nemertea	9.000	0.222	0.077	0.015	Platyhelminthes	56.667	0.164	0.072	0.005
Diptera	8.222	0.202	0.024	0.005	Amphipoda	55.833	0.162	0.072	0.004
Collembola	6.667	0.164	0.004	0.001	Isopoda	17.500	0.051	0.020	0.001
Pseudoscorpionida	4.667	0.115	0.010	0.002	Coleoptera	16.667	0.048	0.007	0.000
Sigalionidae	4.000	0.098	*	*	Siphonariidae	13.333	0.039	1.344	0.084
Asteriidae	4.000	0.098	1.772	0.346	Turtoniidae	5.833	0.017	0.005	0.000
Nematoda	3.000	0.074	*	*	Pseudoscorpionida	5.833	0.017	0.006	0.000
Idoteidae	2.667	0.066	0.483	0.094	Anthozoa	5.000	0.014	0.058	0.004
Sabellidae	2.000	0.049	0.001	0.000	Holothuroidea	3.333	0.010	0.033	0.002
Syllidae	1.333	0.033	0.007	0.001	Spirorbidae	2.500	0.007	*	*
Siphonariidae	1.333	0.033	0.163	0.032	Paguridae	2.500	0.007	0.116	0.007
Turtoniidae	1.333	0.033	0.001	0.000	Asteriidae	2.500	0.007	180.412	11.256
Chironomidae	1.333	0.033	0.001	0.000	Foraminiferida	1.667	0.005	*	*
Pyramidellidae	1.111	0.027	0.007	0.001	Onchidiidae	1.667	0.005	0.038	0.002
Lacunidae	0.667	0.016	0.011	0.002	Hiatellidae	1.667	0.005	0.229	0.014
Onchidiidae	0.667	0.016	0.023	0.005	Idoteidae	1.667	0.005	0.038	0.002
Coleoptera	0.667	0.016	*	*	Copepoda	0.833	0.002	*	*
Chilopoda	0.667	0.016	0.005	0.001	Insecta	0.833	0.002	*	*
Gastropoda	0.556	0.014	0.001	0.000	Asteroidea	0.833	0.002	*	*
Nucellidae	0.556	0.014	1.310	0.256	Cottidae	0.833	0.002	0.018	0.001

Table D-36 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, exposed rocky sites, 1990 1st visit.

4537C

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Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Oligochaeta	3833.333	23.612	1.469	0.129	Amphipoda	1519.444	24.523	2.204	0.474
Amphipoda	2630.000	16.200	5.514	0.484	Mytilidae	1003.701	16.199	355.914	76.535
Mytilidae	1934.541	11.916	660.992	58.058	Balanidae	645.911	10.424	49.210	10.582
Littorinidae	1796.259	11.064	84.303	7.405	Oligochaeta	627.222	10.123	0.448	0.096
Sabellidae	820.931	5.057	0.059	0.005	Spirorbidae	493.739	7.969	0.649	0.140
Foraminiferida	621.667	3.829	0.663	0.058	Littorinidae	432.191	6.975	22.267	4.788
Nematoda	536.111	3.302	0.053	0.005	Archaeobalanidae	315.201	5.087	6.364	1.369
Syllidae	523.053	3.222	0.355	0.031	Nematoda	277.222	4.474	0.014	0.003
Isopoda	486.667	2.998	1.824	0.160	Lottidae	170.692	2.755	5.921	1.273
Caprellidae	443.333	2.731	0.154	0.014	Porifera	81.111	1.309	0.517	0.111
Balanidae	425.936	2.624	97.605	8.573	Isopoda	59.444	0.959	0.276	0.059
Lottidae	304.986	1.879	7.623	0.670	Paguridae	55.556	0.897	6.209	1.335
Archaeobalanidae	262.953	1.620	110.787	9.731	Rissoidae	52.390	0.846	0.092	0.020
Rissoidae	193.617	1.193	0.266	0.023	Nereidae	45.026	0.727	0.054	0.012
Spirorbidae	186.796	1.151	0.042	0.004	Onchidiidae	43.841	0.708	0.824	0.177
Sponidae	186.330	1.148	0.220	0.019	Sponidae	41.798	0.675	0.041	0.009
Cirratulidae	179.669	1.107	0.201	0.018	Acari	34.444	0.556	0.012	0.003
Nemertea	171.111	1.054	2.284	0.201	Nemertea	28.333	0.457	0.292	0.063
Phyllocodidae	89.824	0.553	0.189	0.017	Syllidae	24.498	0.395	0.044	0.009
Idoteidae	63.333	0.390	0.914	0.080	Sigalionidae	23.387	0.377	0.014	0.003
Paguridae	59.444	0.366	4.468	0.392	Lacunidae	22.357	0.361	0.075	0.016
Turtoniidae	40.708	0.251	0.033	0.003	Caecidae	19.982	0.322	0.017	0.004
Pseudoscorpionida	37.778	0.233	0.053	0.005	Buccinidae	16.188	0.261	3.342	0.719
Opheliidae	32.332	0.199	0.021	0.002	Turtoniidae	15.096	0.244	0.021	0.004
Veneridae	31.380	0.193	19.070	1.675	Cirratulidae	15.016	0.242	0.230	0.049
Platyhelminthes	27.222	0.168	0.056	0.005	Phyllocodidae	13.415	0.217	0.038	0.008
Cumacea	26.667	0.164	0.003	0.000	Idoteidae	13.333	0.215	0.847	0.182
Nereidae	25.091	0.155	0.601	0.053	Sabellidae	12.493	0.202	*	*
Buccinidae	23.007	0.142	12.371	1.087	Platyhelminthes	8.889	0.143	0.023	0.005
Chironomidae	22.222	0.137	0.001	0.000	Columbellidae	8.140	0.131	0.306	0.066
Montacutidae	21.149	0.130	0.086	0.008	Asteridae	6.667	0.108	0.787	0.169
Capitellidae	18.965	0.117	0.012	0.001	Trochidae	5.678	0.092	0.062	0.013
Saccocirridae	14.513	0.089	0.004	0.000	Copepoda	5.000	0.081	0.001	0.000
Holothuroidea	14.444	0.089	1.013	0.089	Siphonariidae	4.500	0.073	0.250	0.054
Orbiniidae	13.450	0.083	0.006	0.001	Foraminiferida	4.444	0.072	0.004	0.001
Sigalionidae	12.273	0.076	0.076	0.007	Capitellidae	3.917	0.063	0.004	0.001
Stichaeidae	11.667	0.072	2.651	0.233	Lepidochitonidae	3.889	0.063	2.563	0.551
Polynoidae	10.033	0.062	0.212	0.019	Holothuroidea	3.333	0.054	0.137	0.029
Diptera	10.000	0.062	0.079	0.007	Stichaeidae	3.333	0.054	0.287	0.062
Asteroidea	8.333	0.051	0.003	0.000	Montacutidae	2.801	0.045	0.011	0.002
Columbellidae	7.857	0.048	0.187	0.016	Opheliidae	2.791	0.045	0.002	0.000
Coleoptera	7.222	0.044	0.001	0.000	Polynoidae	2.784	0.045	0.015	0.003
Lumbrineridae	6.687	0.041	0.189	0.017	Cumacea	2.778	0.045	*	*
Oweniidae	6.131	0.038	0.166	0.015	Veneridae	2.259	0.036	0.196	0.042
Onchidiidae	5.317	0.033	0.027	0.002	Orbiniidae	2.227	0.036	0.015	0.003
Nucellidae	4.769	0.029	8.548	0.751	Tanaidacea	2.222	0.036	0.001	0.000
Ampharetidae	4.461	0.027	*	*	Cerithiopsidae	1.807	0.029	0.015	0.003
Lacunidae	3.925	0.024	0.019	0.002	Hiatellidae	1.699	0.027	0.013	0.003
Tanaidacea	3.889	0.024	*	*	Sphaerodoridae	1.114	0.018	*	*
Asteriidae	3.889	0.024	107.446	9.437	Majidae	1.111	0.018	0.765	0.165
Acari	3.333	0.021	0.001	0.000	Coleoptera	1.111	0.018	*	*
Majidae	3.333	0.021	3.579	0.314	Chironomidae	1.111	0.018	*	*
Pyramidellidae	2.244	0.014	0.002	0.000	Asteroidea	1.111	0.018	*	*
Onuphiidae	2.229	0.014	0.010	0.001	Glyceridae	0.568	0.009	0.044	0.009
Pycnogonida	2.222	0.014	*	*	Pyramidellidae	0.561	0.009	0.004	0.001
Bryozoa	2.222	0.014	0.054	0.005	Diaphanidae	0.561	0.009	0.006	0.001
Cyclopteridae	1.667	0.010	0.178	0.016	Nucellidae	0.558	0.009	2.241	0.482
Glyceridae	1.114	0.007	1.647	0.145	Eunicidae	0.557	0.009	0.005	0.001
Dorvilleidae	1.114	0.007	*	*	Mopaliidae	0.556	0.009	0.035	0.008
Porifera	1.111	0.007	0.006	0.000	Cryptomiscidae	0.556	0.009	*	*
Actiniidae	1.111	0.007	0.006	0.000	Caprellidae	0.556	0.009	0.333	0.072
Annelida	1.111	0.007	0.004	0.000	Lithodidae	0.556	0.009	0.001	0.000
Trochidae	1.111	0.007	0.023	0.002	Insecta	0.556	0.009	*	*

Table D-36 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, exposed rocky sites, 1990 1st visit.

4537C (continued)					979 (continued)				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Balanomorpha	1.111	0.007	*	*	Diptera	0.556	0.009	*	*
Collembola	1.111	0.007	*	*	Sipuncula	0.556	0.009	0.671	0.144
Ascidacea	1.111	0.007	0.003	0.000	Echiuridae	0.556	0.009	0.221	0.047
Arenicolidae	0.556	0.003	0.002	0.000	Bryozoa	0.556	0.009	0.069	0.015
Myidae	0.556	0.003	0.014	0.001	Cottidae	0.556	0.009	0.007	0.002
Cottidae	0.556	0.003	0.025	0.002					
Pholididae	0.556	0.003	0.036	0.003					

Table D-37. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, exposed rocky sites, 1990 2nd visit. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

19C					19				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Mytilidae	1505.000	28.596	48.425	50.539	Mytilidae	1187.331	18.217	37.390	17.910
Littorinidae	1412.534	26.839	16.991	17.733	Oligochaeta	904.111	13.872	0.571	0.274
Oligochaeta	889.445	16.900	0.103	0.107	Amphipoda	903.445	13.862	1.167	0.559
Amphipoda	629.167	11.954	0.877	0.915	Lacunidae	898.129	13.780	2.817	1.349
Archaeobalanidae	315.044	6.005	11.548	12.052	Balanidae	682.578	10.473	130.043	62.290
Balanidae	276.178	5.247	10.515	10.974	Littorinidae	466.044	7.151	7.617	3.648
Lottidae	66.704	1.267	2.115	2.207	Chironomidae	327.556	5.026	0.024	0.011
Idoteidae	47.222	0.897	0.152	0.159	Lottidae	238.385	3.658	6.076	2.910
Paguridae	44.167	0.839	0.277	0.289	Turtoniidae	146.225	2.244	0.094	0.045
Diptera	22.222	0.422	0.073	0.077	Nematoda	109.000	1.672	0.001	0.000
Nucellidae	11.041	0.210	4.674	4.878	Hiatellidae	106.556	1.635	0.135	0.065
Turtoniidae	6.667	0.127	0.009	0.009	Porifera	68.667	1.054	0.115	0.055
Chironomidae	6.389	0.121	0.001	0.001	Trochidae	66.506	1.020	0.116	0.056
Nematoda	4.722	0.090	*	*	Paguridae	58.111	0.892	1.772	0.849
Isopoda	4.722	0.090	0.016	0.016	Rissoidae	50.002	0.767	0.083	0.040
Lacunidae	4.444	0.084	0.005	0.005	Spirorbidae	41.889	0.643	0.004	0.002
Nemertea	4.167	0.079	0.001	0.001	Syllidae	27.889	0.428	0.022	0.010
Copepoda	3.889	0.074	*	*	Cumacea	26.333	0.404	0.002	0.001
Syllidae	3.056	0.058	*	*	Platyhelminthes	25.222	0.387	0.011	0.005
Coleoptera	2.222	0.042	*	*	Diptera	23.667	0.363	0.022	0.010
Spirorbidae	0.833	0.016	*	*	Copepoda	22.000	0.338	*	*
Platyhelminthes	0.556	0.011	*	*	Archaeobalanidae	21.089	0.324	4.658	2.231
Caprellidae	0.556	0.011	*	*	Nucellidae	20.129	0.309	15.147	7.255
Siphonariidae	0.556	0.011	0.036	0.037	Nemertea	19.778	0.303	0.263	0.126
Cryptoniscidae	0.556	0.011	*	*	Isopoda	17.222	0.264	0.016	0.008
					Caprellidae	10.000	0.153	0.002	0.001
					Nereidae	7.333	0.113	0.007	0.003
					Cirratulidae	6.111	0.094	0.011	0.005
					Sabellidae	6.111	0.094	*	*
					Asteroidea	5.111	0.078	0.009	0.004
					Siphonariidae	4.454	0.068	0.007	0.003
					Holothuroidea	4.444	0.068	0.199	0.095
					Sigalionidae	2.333	0.036	*	*
					Pyramidellidae	2.013	0.031	0.001	0.001
					Idoteidae	1.778	0.027	0.043	0.021
					Onchidiidae	1.667	0.026	0.002	0.001
					Balanomorpha	1.667	0.026	0.003	0.001
					Acari	1.222	0.019	*	*
					Bryozoa	1.222	0.019	0.077	0.037
					Diaphanidae	0.671	0.010	0.002	0.001
					Spionidae	0.667	0.010	*	*
					Collembola	0.667	0.010	*	*
					Gastropoda	0.556	0.009	0.001	0.001
					Buccinidae	0.556	0.009	0.243	0.116
					Pseudoscorpionida	0.556	0.009	*	*
					Cottidae	0.556	0.009	*	*

Table D-37 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, exposed rocky sites, 1990 2nd visit.

1642C					833				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Mytilidae	1386.778	24.254	76.611	38.505	Balanidae	15997.121	62.326	140.352	11.448
Littorinidae	878.457	15.364	23.902	12.013	Mytilidae	2269.722	8.843	18.476	1.507
Nematoda	560.278	9.799	0.028	0.014	Spirorbidae	1020.556	3.976	0.540	0.044
Turtoniidae	544.167	9.517	0.343	0.172	Littorinidae	965.666	3.762	4.454	0.363
Oligochaeta	463.333	8.103	0.197	0.099	Lacunidae	613.188	2.389	1.401	0.114
Archaeobalanidae	412.438	7.213	17.951	9.022	Trochidae	508.230	1.980	0.844	0.069
Balanidae	375.896	6.574	42.611	21.417	Archaeobalanidae	485.381	1.891	987.952	80.582
Lottiidae	171.816	3.005	7.318	3.678	Isopoda	483.889	1.885	0.672	0.055
Nemertea	100.833	1.764	0.412	0.207	Lottiidae	444.848	1.733	6.770	0.552
Amphipoda	85.833	1.501	0.216	0.108	Amphipoda	353.889	1.379	0.769	0.063
Syllidae	83.341	1.458	0.028	0.014	Holothuroidea	335.000	1.305	9.552	0.779
Hiattellidae	74.333	1.300	0.030	0.015	Syllidae	321.057	1.251	0.542	0.044
Columbellidae	65.645	1.148	2.131	1.071	Oligochaeta	252.222	0.983	0.026	0.002
Cirratulidae	58.836	1.029	0.108	0.054	Actinidae	191.389	0.746	2.843	0.232
Nereidae	56.674	0.991	0.080	0.040	Siphonariidae	174.854	0.681	1.393	0.114
Paguridae	48.611	0.850	2.172	1.092	Nemertea	163.889	0.639	0.639	0.052
Opheliidae	44.167	0.772	0.022	0.011	Sabellidae	145.833	0.568	0.008	0.001
Rissoidae	36.428	0.637	0.050	0.025	Cryptoniscidae	123.333	0.481	0.041	0.003
Trochidae	35.888	0.628	0.017	0.009	Hiattellidae	102.778	0.400	0.605	0.049
Lacunidae	32.276	0.564	0.037	0.019	Onchidiidae	89.268	0.348	1.292	0.105
Sigalionidae	30.258	0.529	0.009	0.005	Rissoidae	81.271	0.317	0.062	0.005
Platyhelminthes	29.167	0.510	0.019	0.010	Nematoda	67.500	0.263	0.002	0.000
Spionidae	25.007	0.437	0.064	0.032	Phyllodoceidae	56.707	0.221	0.185	0.015
Diptera	22.500	0.394	0.164	0.083	Turtoniidae	48.611	0.189	0.036	0.003
Asteriidae	12.500	0.219	0.253	0.127	Diptera	44.167	0.172	0.055	0.005
Sabellidae	10.877	0.190	*	*	Nereidae	28.616	0.111	0.111	0.009
Phyllodoceidae	9.174	0.160	0.085	0.043	Cirratulidae	25.010	0.097	1.383	0.113
Tellinidae	9.167	0.160	1.657	0.833	Mopaliidae	24.722	0.096	38.908	3.174
Idoteidae	8.333	0.146	0.687	0.345	Echinoidea	22.222	0.087	0.044	0.004
Amphictenidae	7.500	0.131	0.043	0.021	Spionidae	20.278	0.079	0.013	0.001
Isopoda	7.500	0.131	0.021	0.011	Tanaidacea	16.667	0.065	0.008	0.001
Chironomidae	5.833	0.102	*	*	Paguridae	15.000	0.058	0.197	0.016
Buccinidae	4.436	0.078	1.342	0.675	Asteriidae	14.167	0.055	1.349	0.110
Actiniidae	3.333	0.058	14.523	7.300	Lepidochitonidae	13.611	0.053	0.352	0.029
Asteroidea	3.333	0.058	0.002	0.001	Pycnogonida	12.778	0.050	0.023	0.002
Veneridae	2.500	0.044	0.590	0.297	Idoteidae	12.500	0.049	0.276	0.022
Nucellidae	1.721	0.030	4.747	2.386	Columbellidae	11.488	0.045	0.141	0.012
Holothuroidea	1.667	0.029	0.062	0.031	Pyramidellidae	11.488	0.045	0.305	0.025
Foraminiferida	0.833	0.015	*	*	Platyhelminthes	11.389	0.044	0.015	0.001
Montacutidae	0.833	0.015	0.002	0.001	Acan	11.389	0.044	0.003	0.000
Acan	0.833	0.015	*	*	Asteroidea	11.111	0.043	0.013	0.001
Grapsidae	0.833	0.015	0.158	0.079	Saccocirridae	7.778	0.030	0.001	0.000
Coleoptera	0.833	0.015	*	*	Nudibranchia	7.658	0.030	0.002	0.000
Echinoidea	0.833	0.015	0.003	0.001	Nucellidae	6.257	0.024	0.013	0.001
Stichaeidae	0.833	0.015	0.266	0.134	Chironomidae	6.111	0.024	*	*
Pseudoscorpionida	0.556	0.010	0.001	0.001	Sipuncula	5.833	0.023	2.401	0.196
Balanomorpha	0.556	0.010	0.002	0.001	Cerithiidae	5.741	0.022	0.019	0.002
					Veneridae	4.444	0.017	0.143	0.012
					Coleoptera	3.611	0.014	0.001	0.000
					Stichaeidae	3.333	0.013	0.230	0.019
					Pseudoscorpionida	2.778	0.011	*	*
					Sigalionidae	2.222	0.009	0.010	0.001
					Amphictenidae	2.222	0.009	0.001	0.000
					Bryozoa	2.222	0.009	0.426	0.035
					Opisthobranchia	1.151	0.004		
					Ungulinidae	1.111	0.004	0.062	0.005
					Hydrozoa	0.833	0.003	0.060	0.005
					Chrysopetalidae	0.833	0.003	*	*

Table D-37 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, exposed rocky sites, 1990 2nd visit.

4537C

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Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Oligochaeta	6527.111	36.886	1.891	0.268	Amphipoda	368.111	12.602	0.536	0.206
Littorinidae	3740.593	21.139	107.043	15.195	Littorinidae	318.166	10.892	13.255	5.101
Mytilidae	2289.260	12.937	461.259	65.477	Balanidae	296.295	10.144	22.278	8.573
Amphipoda	712.667	4.027	1.365	0.194	Mytilidae	283.222	9.696	68.136	26.219
Nematoda	617.778	3.491	0.017	0.002	Nematoda	216.556	7.414	0.004	0.002
Lottidae	559.201	3.160	6.041	0.858	Lacunidae	210.023	7.190	0.481	0.185
Archaeobalanidae	456.789	2.581	59.170	8.399	Paguridae	192.111	6.577	14.791	5.692
Balanidae	415.323	2.347	38.497	5.465	Oligochaeta	135.000	4.622	0.045	0.017
Syllidae	385.682	2.180	0.271	0.038	Nereidae	89.010	3.047	0.109	0.042
Foraminiferida	334.556	1.891	0.331	0.047	Syllidae	83.293	2.852	0.063	0.024
Cirratulidae	316.549	1.789	0.290	0.041	Rissoidae	80.212	2.746	0.117	0.045
Spionidae	219.301	1.239	0.245	0.035	Archaeobalanidae	79.371	2.717	114.936	44.228
Phyllodocidae	178.634	1.009	0.373	0.053	Lottidae	73.842	2.528	2.006	0.772
Turtoniidae	113.145	0.639	0.089	0.013	Sabellidae	64.215	2.198	0.001	0.000
Nemertea	110.444	0.624	1.079	0.153	Chironomidae	52.000	1.780	0.003	0.001
Sabellidae	91.367	0.516	0.005	0.001	Buccinidae	37.348	1.279	14.011	5.391
Spirorbidae	78.936	0.446	0.018	0.003	Phyllodocidae	35.922	1.230	0.055	0.021
Paguridae	65.778	0.372	2.178	0.309	Orbiniidae	21.010	0.719	0.077	0.029
Saccocirridae	51.293	0.290	0.023	0.003	Nemertea	20.778	0.711	0.389	0.150
Isopoda	48.000	0.271	0.086	0.012	Spionidae	20.268	0.694	0.010	0.004
Idoteidae	39.111	0.221	1.830	0.260	Isopoda	19.889	0.681	0.023	0.009
Porifera	38.667	0.219	0.073	0.010	Trochidae	17.974	0.615	0.022	0.009
Platyhelminthes	36.778	0.208	0.014	0.002	Hiatellidae	17.000	0.582	0.072	0.028
Orbiniidae	32.974	0.186	0.112	0.016	Copepoda	16.667	0.571	0.001	0.000
Diptera	20.397	0.115	0.091	0.013	Polynoidae	16.000	0.548	0.196	0.075
Opheliidae	17.813	0.101	0.042	0.006	Caprellidae	15.481	0.530	0.013	0.005
Buccinidae	17.262	0.098	3.831	0.544	Caprellidae	14.000	0.479	0.004	0.002
Montacutidae	14.444	0.082	0.093	0.013	Opheliidae	13.889	0.475	0.017	0.007
Holothuroidea	14.222	0.080	0.440	0.062	Cirratulidae	12.232	0.419	0.409	0.157
Onuphidae	12.247	0.069	0.028	0.004	Platyhelminthes	12.222	0.418	0.156	0.060
Pseudoscorpionida	10.667	0.060	0.005	0.001	Sigalionidae	12.007	0.411	0.002	0.001
Caprellidae	10.033	0.057	0.003	0.000	Idoteidae	7.333	0.251	0.140	0.054
Caprellidae	10.000	0.057	0.002	0.000	Montacutidae	6.667	0.228	0.015	0.006
Cryptoniscidae	9.333	0.053	0.037	0.005	Turtoniidae	6.222	0.213	0.004	0.001
Siphonariidae	8.676	0.049	0.013	0.002	Tanaidacea	6.000	0.205	*	*
Chironomidae	8.381	0.047	0.001	0.000	Cumacea	5.889	0.202	*	*
Trochidae	8.307	0.047	0.009	0.001	Caecidae	5.333	0.183	0.005	0.002
Veneridae	7.817	0.044	11.269	1.600	Spirorbidae	4.784	0.164	0.001	0.000
Anthozoa	7.778	0.044	0.003	0.000	Veneridae	4.667	0.160	0.127	0.049
Nereidae	7.118	0.040	0.036	0.005	Columbellidae	4.004	0.137	0.137	0.053
Onchidiidae	6.197	0.035	0.067	0.009	Coleoptera	3.889	0.133	0.001	0.000
Lacunidae	5.978	0.034	0.013	0.002	Onchidiidae	3.502	0.120	0.068	0.026
Tanaidacea	5.556	0.031	0.002	0.000	Muricidae	3.343	0.114	0.195	0.075
Sigalionidae	5.354	0.030	0.038	0.005	Mopaliidae	3.222	0.110	1.870	0.720
Lumbrineridae	4.013	0.023	0.021	0.003	Acari	2.778	0.095	0.002	0.001
Nucellidae	2.899	0.016	1.774	0.252	Nucellidae	1.918	0.066	3.262	1.255
Acari	2.778	0.016	0.001	0.000	Stichaeidae	1.222	0.042	0.320	0.123
Amphictenidae	2.461	0.014	0.004	0.001	Actinidae	1.111	0.038	0.002	0.001
Oweniidae	2.227	0.013	0.012	0.002	Lumbrineridae	0.667	0.023	0.023	0.009
Hiatellidae	2.222	0.013	*	*	Dorvilleidae	0.667	0.023	*	*
Echinoidea	2.222	0.013	0.011	0.002	Pycnogonida	0.667	0.023	0.003	0.001
Cottidae	2.222	0.013	0.318	0.045	Canceridae	0.667	0.023	1.413	0.544
Stichaeidae	2.222	0.013	0.212	0.030	Cottidae	0.667	0.023	0.059	0.023
Coleoptera	2.000	0.011	*	*	Polychaeta	0.556	0.019	*	*
Annelida	1.111	0.006	0.006	0.001	Diptera	0.556	0.019	*	*
Majidae	1.111	0.006	3.752	0.533	Holothuroidea	0.556	0.019	0.008	0.003
Bryozoa	0.556	0.003	0.022	0.003					

Table D-38. Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, exposed rocky sites, 1991. Taxa are arranged in decreasing order of abundance. Mean biomass values of less than 0.001g are indicated by an asterisk (*).

19C				19			
Taxa	Abundance	Biomass		Taxa	Abundance	Biomass	
Mytilidae	4363.333	31.020	537.827	30.332	Balanidae	7480.172	64.831
Amphipoda	3239.444	23.030	6.077	0.343	Mytilidae	1065.329	9.233
Oligochaeta	1571.111	11.169	0.695	0.039	Archaeobalanidae	1018.495	8.827
Balanidae	1429.873	10.165	69.450	3.917	Littorinidae	378.464	3.280
Archaeobalanidae	589.570	4.191	1101.533	62.124	Lottidae	371.574	3.220
Littorinidae	533.413	3.792	20.014	1.129	Oligochaeta	264.667	2.294
Lottidae	468.672	3.332	16.879	0.952	Nematoda	188.667	1.635
Sabellidae	462.024	3.285	0.050	0.003	Lacunidae	132.754	1.151
Syllidae	393.358	2.796	0.296	0.017	Amphipoda	118.000	1.023
Nematoda	350.000	2.488	0.005	0.000	Cryptoniscidae	79.333	0.688
Isopoda	106.667	0.758	0.897	0.051	Turtoniidae	72.000	0.624
Spirorbidae	90.673	0.645	0.103	0.006	Cirratulidae	57.089	0.495
Nemertea	68.333	0.486	0.466	0.026	Nucellidae	47.739	0.414
Onchidiidae	61.439	0.437	1.286	0.072	Caecidae	33.747	0.292
Paguridae	41.667	0.296	1.870	0.105	Diptera	30.667	0.266
Chironomidae	41.111	0.292	0.015	0.001	Chironomidae	30.667	0.266
Idoteidae	39.444	0.280	0.876	0.049	Paguridae	26.000	0.225
Diptera	35.556	0.253	0.072	0.004	Platyhelminthes	22.000	0.191
Spionidae	31.148	0.221	0.052	0.003	Sigalionidae	20.825	0.180
Platyhelminthes	28.333	0.201	0.045	0.003	Nemertea	20.667	0.179
Hiattellidae	28.333	0.201	3.053	0.172	Isopoda	13.333	0.116
Porifera	16.667	0.118	2.901	0.164	Rissoidae	11.631	0.101
Coleoptera	10.556	0.075	0.002	0.000	Syllidae	9.343	0.081
Copepoda	8.333	0.059	*	*	Saccocirridae	8.733	0.076
Capitellidae	7.232	0.051	0.006	0.000	Onchidiidae	4.667	0.040
Holothuroidea	6.667	0.047	0.631	0.036	Trochidae	3.662	0.032
Cryptoniscidae	6.111	0.043	0.006	0.000	Columbellidae	3.537	0.031
Nereidae	5.004	0.036	0.002	0.000	Siphonariidae	3.374	0.029
Turtoniidae	5.000	0.036	0.005	0.000	Copepoda	3.333	0.029
Nucellidae	3.394	0.024	5.627	0.317	Sabellidae	2.672	0.023
Siphonariidae	3.382	0.024	0.173	0.010	Buccinidae	2.185	0.019
Sipuncula	3.333	0.024	0.473	0.027	Bryozoa	2.000	0.017
Phyllodocidae	2.782	0.020	0.017	0.001	Asteroidea	2.000	0.017
Rissoidae	1.818	0.013	0.002	0.000	Hiattellidae	1.337	0.012
Lacunidae	1.769	0.013	0.025	0.001	Ascidacea	1.333	0.012
Mopaliidae	1.667	0.012	0.695	0.039	Phyllodocidae	0.672	0.006
Pseudoscorpionida	1.667	0.012	0.002	0.000	Nereidae	0.667	0.006
Actiniidae	1.111	0.008	0.007	0.000	Mopaliidae	0.667	0.006
Kelliidae	1.111	0.008	0.013	0.001	Pseudoscorpionida	0.667	0.006
Acari	1.111	0.008	*	*	Acari	0.667	0.006
Bryozoa	1.111	0.008	0.066	0.004	Idoteidae	0.667	0.006
Cirratulidae	0.556	0.004	0.001	0.000	Collembola	0.667	0.006
Asteriidae	0.556	0.004	0.136	0.008	Coleoptera	0.667	0.006
Cottidae	0.556	0.004	0.409	0.023	Stichaeidae	0.667	0.006
Cyclopteridae	0.556	0.004	0.100	0.006			
Stichaeidae	0.556	0.004	0.269	0.015			

Table D-38 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, exposed rocky sites, 1991.

Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Balanidae	6233.641	33.241	190.278	32.856	Balanidae	14225.995	40.382	268.443	5.355
Mytilidae	3837.256	20.462	227.651	39.309	Mytilidae	11856.390	33.655	1177.556	23.489
Littorinidae	2509.564	13.382	29.328	5.064	Littorinidae	2277.483	6.465	8.315	0.166
Turtonidae	2094.966	11.171	1.967	0.340	Archaeobalanidae	1307.338	3.711	3439.522	68.608
Archaeobalanidae	1886.360	10.059	106.126	18.325	Sabellidae	943.611	2.679	0.168	0.003
Nematoda	530.000	2.826	0.009	0.002	Isopoda	758.889	2.154	1.261	0.025
Oligochaeta	509.444	2.717	0.094	0.016	Holothuroidea	595.000	1.689	20.685	0.413
Spirorbidae	298.333	1.591	0.437	0.076	Oligochaeta	588.056	1.669	0.127	0.003
Lottidae	244.327	1.303	5.975	1.032	Lottidae	476.513	1.353	17.785	0.355
Chironomidae	110.778	0.591	0.044	0.008	Nematoda	266.111	0.755	0.004	0.000
Cryptoniscidae	55.000	0.293	0.087	0.015	Onchidiidae	222.164	0.631	2.600	0.052
Amphipoda	51.667	0.276	1.392	0.240	Syllidae	209.444	0.595	0.270	0.005
Paguridae	51.667	0.276	0.644	0.111	Spionidae	170.833	0.485	0.069	0.001
Platyhelminthes	50.000	0.267	0.028	0.005	Lepidochitonidae	162.778	0.462	1.434	0.029
Diptera	45.333	0.242	0.095	0.016	Nemertea	117.778	0.334	0.986	0.020
Trochidae	35.348	0.188	0.544	0.094	Actiniidae	117.500	0.334	4.899	0.098
Syllidae	31.482	0.168	0.036	0.006	Platyhelminthes	117.500	0.334	0.361	0.007
Lacunidae	28.431	0.152	0.238	0.041	Cryptoniscidae	111.944	0.318	0.073	0.001
Sabellidae	21.111	0.113	*	*	Diptera	110.556	0.314	0.424	0.008
Nemertea	17.222	0.092	0.161	0.028	Tanaidacea	108.333	0.308	0.172	0.003
Hiatellidae	17.222	0.092	0.287	0.050	Siphonariidae	97.174	0.276	6.328	0.126
Copepoda	17.222	0.092	0.002	0.000	Turtonidae	92.500	0.263	0.102	0.002
Sigalionidae	16.296	0.087	*	*	Hiatellidae	70.000	0.199	1.836	0.037
Caprellidae	10.556	0.056	0.014	0.002	Amphipoda	42.500	0.121	0.901	0.018
Rissoidae	8.397	0.045	0.006	0.001	Asteridae	33.889	0.096	4.249	0.085
Asteridae	5.000	0.027	0.764	0.132	Cirratulidae	27.500	0.078	0.043	0.001
Isopoda	4.444	0.024	0.039	0.007	Mopaliidae	26.944	0.076	53.732	1.072
Siphonariidae	3.369	0.018	0.113	0.019	Phyllodocidae	20.000	0.057	0.091	0.002
Buccinidae	3.333	0.018	1.493	0.258	Coleoptera	16.389	0.047	*	*
Cumacea	3.333	0.018	*	*	Collembola	15.278	0.043	0.003	0.000
Cirratulidae	2.778	0.015	*	*	Chironomidae	12.778	0.036	*	*
Idoteidae	2.778	0.015	0.047	0.008	Pseudoscorpionida	5.833	0.017	0.005	0.000
Nucellidae	2.227	0.012	2.174	0.375	Spirorbidae	4.444	0.013	0.007	0.000
Actinidae	1.667	0.009	2.284	0.394	Copepoda	4.167	0.012	0.001	0.000
Nereidae	1.667	0.009	0.002	0.000	Cerithiopsidae	3.333	0.009	0.011	0.000
Skeneopsidae	1.115	0.006	*	*	Sipuncula	3.333	0.009	0.312	0.006
Porifera	1.111	0.006	0.021	0.004	Nereidae	1.944	0.006	*	*
Phyllodocidae	1.111	0.006	0.001	0.000	Pyramidellidae	1.667	0.005	0.002	0.000
Lepidochitonidae	1.111	0.006	0.215	0.037	Chrysopetalidae	1.111	0.003	*	*
Pseudoscorpionida	1.111	0.006	*	*	Pycnogonida	1.111	0.003	*	*
Acari	1.111	0.006	*	*	Canceridae	1.111	0.003	0.372	0.007
Pyramidellidae	0.557	0.003	0.001	0.000	Porifera	0.833	0.002	0.106	0.002
Polynoidae	0.556	0.003	0.002	0.000	Grapsidae	0.833	0.002	0.007	0.000
Orbiniidae	0.556	0.003	0.002	0.000					
Amphictenidae	0.556	0.003	0.022	0.004					
Mopaliidae	0.556	0.003	6.353	1.097					
Balanomorpha	0.556	0.003	0.011	0.002					
Echinoidea	0.556	0.003	0.139	0.024					

Table D-38 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, exposed rocky sites, 1991.

4537C					E7E				
Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)	Taxa	Abundance (no. m ⁻²)	(%)	Biomass (g m ⁻²)	(%)
Littorinidae	3829.952	16.946	112.630	15.441	Balanidae	1747.267	19.045	87.043	24.715
Oligochaeta	3649.111	16.145	1.019	0.140	Nematoda	961.111	10.476	0.047	0.013
Amphipoda	2283.667	10.104	3.919	0.537	Oligochaeta	807.222	8.799	0.626	0.178
Foraminiferida	2029.222	8.978	2.222	0.305	Mytilidae	580.569	6.328	152.676	43.352
Mytilidae	1593.796	7.052	370.164	50.748	Amphipoda	505.000	5.504	2.587	0.735
Balanidae	1539.786	6.813	45.510	6.239	Tanaidacea	497.222	5.420	0.297	0.084
Nematoda	1100.667	4.870	0.035	0.005	Lottidae	427.451	4.659	13.632	3.871
Isopoda	952.333	4.214	3.803	0.521	Littorinidae	416.888	4.544	30.142	8.559
Lottidae	777.146	3.438	12.461	1.708	Copepoda	372.222	4.057	0.046	0.013
Holothuroidea	629.667	2.786	35.703	4.895	Lacunidae	290.815	3.170	3.735	1.060
Spirorbidae	609.177	2.695	1.266	0.174	Rissoidae	280.664	3.059	0.300	0.085
Sabellidae	567.540	2.511	0.095	0.013	Spirorbidae	212.565	2.317	0.366	0.104
Syllidae	545.484	2.413	0.315	0.043	Asteroidae	156.111	1.702	0.592	0.168
Archaeobalanidae	306.325	1.355	36.808	5.019	Phyllocodidae	149.019	1.624	0.323	0.092
Turtoniidae	267.387	1.183	0.272	0.037	Turtoniidae	139.051	1.516	0.140	0.040
Nemertea	185.444	0.820	1.411	0.193	Cumacea	111.111	1.211	0.040	0.011
Veneridae	153.398	0.679	57.640	7.902	Paguridae	108.889	1.187	4.015	1.140
Cumacea	150.889	0.668	0.052	0.007	Asteroidae	105.556	1.151	0.024	0.007
Orbiniidae	133.957	0.593	0.355	0.049	Foraminiferida	103.889	1.132	0.080	0.023
Rissoidae	121.683	0.538	0.190	0.026	Nemertea	100.556	1.096	0.872	0.248
Cirratulidae	106.302	0.470	0.106	0.015	Archaeobalanidae	96.622	1.053	3.003	0.853
Saccocirridae	101.397	0.449	0.152	0.021	Syllidae	95.080	1.036	0.154	0.044
Paguridae	95.000	0.420	5.531	0.758	Sabellidae	87.503	0.954	0.010	0.003
Lacunidae	80.569	0.356	1.039	0.142	Montacutidae	80.403	0.876	0.205	0.058
Montacutidae	80.034	0.354	0.234	0.032	Pionidae	76.321	0.832	0.046	0.013
Ampharetidae	72.101	0.319	0.014	0.002	Veneridae	71.702	0.782	17.465	4.959
Phyllocodidae	67.990	0.301	0.366	0.050	Chironomidae	68.356	0.745	1.364	0.387
Spionidae	54.067	0.239	0.197	0.027	Diptera	65.000	0.708	0.038	0.011
Idoteidae	51.111	0.226	2.083	0.286	Isopoda	62.778	0.684	0.044	0.012
Capitellidae	40.602	0.180	0.042	0.006	Sigalionidae	46.667	0.509	0.073	0.021
Onchidiidae	39.394	0.174	0.937	0.128	Orbiniidae	45.029	0.491	0.064	0.018
Tanaidacea	39.000	0.173	0.028	0.004	Perifera	40.561	0.442	0.287	0.081
Lumbrineridae	34.043	0.151	1.026	0.141	Caecidae	35.556	0.388	0.029	0.008
Diptera	33.222	0.147	0.082	0.011	Onchidiidae	27.013	0.294	0.015	0.004
Anthozoa	31.111	0.138	0.006	0.001	Buccinidae	23.192	0.253	0.609	0.173
Buccinidae	25.516	0.113	5.876	0.806	Cirratulidae	18.671	0.204	5.767	1.638
Tellinidae	22.439	0.099	8.734	1.197	Columbellidae	18.333	0.200	0.614	0.174
Platyhelminthes	19.000	0.084	0.009	0.001	Hiatellidae	17.297	0.189	0.788	0.224
Actiniidae	17.444	0.077	3.938	0.540	Tellinidae	15.478	0.169	0.350	0.099
Sigalionidae	15.464	0.068	0.062	0.008	Pyramidellidae	13.910	0.152	2.014	0.572
Caprellidae	14.000	0.062	0.011	0.002	Acari	11.205	0.122	0.122	0.035
Owenidae	13.351	0.059	0.335	0.046	Ascidacea	11.111	0.121	0.005	0.001
Trochidae	10.382	0.046	0.120	0.016	Sipuncula	8.889	0.097	0.087	0.025
Nerillidae	8.491	0.038	*	*	Nereidae	8.333	0.091	0.423	0.120
Pycnogonida	7.333	0.032	0.039	0.005	Polynoidae	6.675	0.073	0.015	0.004
Acari	6.667	0.029	0.004	0.001	Holothuroidea	5.556	0.061	0.003	0.001
Myidae	6.591	0.029	0.098	0.013	Serpulidae	5.000	0.054	0.085	0.024
Chironomidae	6.222	0.028	0.001	0.000	Idoteidae	3.889	0.042	0.174	0.049
Columbellidae	6.111	0.027	0.126	0.017	Diaphanidae	3.889	0.042	0.406	0.115
Polygordiidae	6.009	0.027	0.004	0.001	Owenidae	2.804	0.031	0.002	0.000
Hiatellidae	5.652	0.025	0.069	0.009	Annellida	2.783	0.030	0.044	0.013
Pyramidellidae	5.196	0.023	0.006	0.001	Lumbrineridae	2.778	0.030	0.174	0.050
Asteridae	5.000	0.022	2.095	0.287	Platyhelminthes	2.226	0.024	0.168	0.048
Opheliidae	4.673	0.021	*	*	Pycnogonida	2.222	0.024	0.202	0.057
Nereidae	4.671	0.021	0.018	0.002	Nucellidae	2.222	0.024	0.001	0.000
Coleoptera	4.111	0.018	0.001	0.000	Capitellidae	1.736	0.019	3.589	1.019
Polynoidae	4.008	0.018	0.026	0.004	Asteropsidae	1.675	0.018	*	*
Maldanidae	4.004	0.018	0.176	0.024	Muricidae	1.667	0.018	15.819	4.492
Siphonariidae	4.000	0.018	0.679	0.093	Hesoniidae	1.124	0.012	0.036	0.010
Nucellidae	3.488	0.015	0.069	0.010	Amphictenidae	1.113	0.012	*	*
Stichaeidae	2.889	0.013	0.355	0.049	Caprellidae	1.112	0.012	0.024	0.007
Echiuridae	2.222	0.010	3.158	0.433	Stichaeidae	1.111	0.012	*	*
Lepidochitonidae	2.000	0.009	0.101	0.014				0.062	0.018

Table D-38 (continued). Mean abundance (no. m⁻²) and biomass (g m⁻²) of all taxa for PWS, exposed rocky sites, 1991.

4537C (continued)					979 (continued)				
Taxa	Abundance		Biomass		Taxa	Abundance		Biomass	
	(no. m ⁻²)	(%)	(g m ⁻²)	(%)		(no. m ⁻²)	(%)	(g m ⁻²)	(%)
Echinoidea	1.889	0.008	1.240	0.170	Lepetidae	0.562	0.006	0.041	0.012
Onuphidae	1.335	0.006	0.012	0.002	Chrysopetalidae	0.557	0.006	*	*
Amphictenidae	1.335	0.006	0.032	0.004	Goniadidae	0.557	0.006	0.006	0.002
Ascidacea	1.333	0.006	0.269	0.037	Flabelligeridae	0.557	0.006	0.003	0.001
Porifera	1.111	0.005	*	*	Opheliidae	0.557	0.006	*	*
Diaphanidae	0.679	0.003	0.003	0.000	Actiniidae	0.556	0.006	0.013	0.004
Mopaliidae	0.667	0.003	2.851	0.391	Glyceridae	0.556	0.006	0.124	0.035
Balanomorpha	0.667	0.003	0.001	0.000	Saccocirridae	0.556	0.006	*	*
Epicaridea	0.667	0.003	*	*	Mopaliidae	0.556	0.006	*	*
Atelecyclidae	0.667	0.003	1.380	0.189	Bryozoa	0.556	0.006	0.028	0.008
Flabelligeridae	0.556	0.002	0.001	0.000					
Arenicolidae	0.556	0.002	*	*					
Grapsidae	0.556	0.002	0.007	0.001					

Table D-39. Mean abundance (no. m⁻²), number of taxa, Simpson dominance, Shannon-Wiener diversity and evenness, and species richness for Prince William Sound sheltered rocky site pairs. Taxa were consolidated at the family level or higher for analysis.

Site Number	Year	Month	Abundance (no. m ⁻²)	Number of Taxa	Simpson	Shannon- Wiener	Even	Species Richness	
109	4825C	1990	May	40552.59	46.0	0.11	2.48	0.65	4.24
	4825C	1990	Jul	7097.39	53.0	0.08	2.80	0.70	5.86
	4825C	1991	May	2690.22	39.0	0.16	2.17	0.59	4.81
	1424	1990	May	36143.15	47.0	0.21	1.90	0.49	4.38
	1424	1990	Jul	7763.89	45.0	0.23	2.07	0.54	4.91
	1424	1991	May	19400.56	49.0	0.51	1.33	0.34	4.86
	453C	1990	May	41099.75	50.0	0.24	2.01	0.51	4.61
	453C	1990	Jul	22597.23	49.0	0.31	1.84	0.47	4.79
	453C	1991	May	24334.18	45.0	0.25	1.88	0.49	4.36
	453	1989	Aug	2981.11	41.0	0.10	2.62	0.70	5.00
	453	1990	May	4356.67	37.0	0.16	2.31	0.64	4.30
	453	1990	Jul	6535.22	39.0	0.17	2.22	0.61	4.33
	453	1991	May	3865.23	26.0	0.18	1.96	0.60	3.03
	601C	1990	May	7044.61	49.0	0.19	2.21	0.57	5.42
	601C	1990	Jul	14815.79	46.0	0.13	2.44	0.64	4.69
	601C	1991	May	5338.11	37.0	0.34	1.63	0.45	4.19
	601	1989	Aug	6417.28	38.0	0.20	2.13	0.59	4.22
	601	1990	May	6598.34	55.0	0.18	2.34	0.58	6.14
	601	1990	Jul	9612.56	49.0	0.13	2.47	0.63	5.23
	601	1991	May	7152.20	33.0	0.17	2.24	0.64	3.61
	598C	1990	May	3350.30	31.0	0.33	1.64	0.48	3.70
	598C	1990	Jul	10653.00	42.0	0.18	2.18	0.58	4.42
	598C	1991	May	6752.66	37.0	0.46	1.41	0.39	4.08
	598	1989	Aug	15884.44	36.0	0.37	1.57	0.44	3.62
	598	1990	May	9450.68	50.0	0.22	2.12	0.54	5.35
	598	1990	Jul	13461.88	49.0	0.15	2.27	0.58	5.05
	598	1991	May	6490.51	41.0	0.19	2.21	0.60	4.56
	1522C	1990	May	8755.78	35.0	0.27	1.84	0.52	3.75
	1522C	1990	Jul	7401.29	40.0	0.19	2.17	0.59	4.38
	1522C	1991	May	9267.95	35.0	0.25	1.85	0.52	3.72
	1522	1989	Aug	17415.55	14.0	0.23	1.67	0.63	1.33
	1522	1990	May	16219.69	28.0	0.23	1.86	0.56	2.79
	1522	1990	Jul	32255.01	45.0	0.19	2.09	0.55	4.24
	1522	1991	May	17776.34	43.0	0.18	2.07	0.55	4.29

Table D-40. Mean abundance (no. m⁻²), number of taxa, Simpson dominance, Shannon-Wiener diversity and evenness, and species richness for Cook Inlet/Kenai Peninsula sheltered rocky site pairs. Taxa were consolidated at the family level or higher for analysis.

Site Number	Year	Month	Abundance (no. m ⁻²)	Number of Taxa	Simpson	Shannon-Wiener	S-W Even	Species Richness
14.1C	1990	Jun	12622.81	49.0	0.19	2.09	0.54	5.08
14.1C	1990	Aug	17057.23	50.0	0.17	2.24	0.57	5.03
14.1C	1991	May	23327.78	49.0	0.18	2.21	0.57	4.77
14.1	1990	Jun	10081.10	61.0	0.11	2.62	0.64	6.51
14.1	1990	Aug	16236.67	60.0	0.16	2.23	0.55	6.09
14.1	1991	May	9547.05	36.0	0.22	1.87	0.52	3.82
14.2C	1990	Jun	21165.07	45.0	0.19	2.07	0.54	4.42
14.2C	1990	Aug	19950.56	41.0	0.30	1.64	0.44	4.04
14.2C	1991	May	26746.17	40.0	0.33	1.51	0.41	3.83
14.2	1990	Jun	13548.15	53.0	0.24	1.91	0.48	5.47
14.2	1990	Aug	15316.67	45.0	0.21	1.90	0.50	4.57
14.2	1991	May	12781.67	41.0	0.22	1.96	0.53	4.23
62762C	1989	Sep	23290.59	46.0	0.19	2.12	0.55	4.48
62762C	1990	Jun	56897.59	58.0	0.16	2.22	0.55	5.21
62762C	1990	Aug	27250.55	53.0	0.19	2.11	0.53	5.09
62762C	1991	May	28902.78	48.0	0.36	1.60	0.41	4.58
50983	1989	Sep	15180.65	31.0	0.28	1.70	0.49	3.12
50983	1990	Jun	15058.16	40.0	0.29	1.65	0.45	4.05
50983	1990	Aug	14569.23	36.0	0.36	1.35	0.38	3.65
50983	1991	May	19215.62	43.0	0.39	1.46	0.39	4.26

Table D-41. Mean abundance (no. m⁻²), number of taxa, Simpson dominance, Shannon-Wiener diversity and evenness, and species richness for Kodiak/Alaska Peninsula sheltered rocky site pairs. Taxa were consolidated at the family level or higher for analysis.

Site Number	Year	Month	Abundance (no. m ⁻²)	Number of Taxa	Simpson	Shannon- Wiener	S-W	Species
30196C	1990	Jun	11429.23	55.0	0.10	2.80		
30196C	1990	Aug	16226.11	56.0	0.08	2.89	0.70	5.78
30196C	1991	May	10586.67	47.0	0.21	2.06	0.72	5.67
30196	1989	Sep	20121.75				0.53	4.96
30196	1990	Jun	15100.78	56.0	0.09	2.87	0.71	5.55
30196	1990	Aug	35088.34	55.0	0.11	2.66	0.66	5.61
30196	1991	May	9216.23	65.0	0.09	2.79	0.67	6.12
				52.0	0.11	2.56	0.65	5.59
31252C	1990	Jun	12251.39	33.0	0.50	1.18	0.34	3.40
31252C	1990	Aug	20157.21	31.0	0.52	1.16	0.34	3.03
31252C	1991	May	7006.78	23.0	0.35	1.47	0.47	2.48
31252	1990	Jun	23397.52	40.0	0.43	1.30	0.35	3.88
31252	1990	Aug	26046.12	51.0	0.42	1.47	0.37	4.92
31252	1991	May	22088.67	32.0	0.45	1.20	0.35	3.10
31252C	1990	Jun	12251.39	33.0	0.50	1.18	0.34	3.40
31252C	1990	Aug	20157.21	31.0	0.52	1.16	0.34	3.03
31252C	1991	May	7006.78	23.0	0.35	1.47	0.47	2.48
31248	1989	Sep	14130.00	25.0	0.62	0.79	0.25	2.51
31248	1990	Jun	9176.23	32.0	0.55	1.05	0.30	3.10
31248	1990	Aug	21072.79	48.0	0.49	1.31	0.34	4.72
31248	1991	May	14329.44	34.0	0.40	1.39	0.39	3.45
99826C	1989	Sep	20372.36	26.0	0.32	1.46	0.45	2.52
99826C	1990	Jun	16460.28	40.0	0.26	1.72	0.47	4.02
99826C	1990	Aug	25895.84	47.0	0.22	1.97	0.51	4.53
99826C	1991	May	15575.15	31.0	0.28	1.85	0.54	3.11
33141	1989	Sep	116966.65	43.0	0.15	2.27	0.60	3.60
33141	1990	Jun	9203.49	42.0	0.10	2.55	0.68	4.19
33141	1990	Aug	10681.85	59.0	0.12	2.53	0.62	6.25
33141	1991	May	5817.13	35.0	0.11	2.47	0.70	3.92

Table D-42. Mean abundance (no. m⁻²), number of taxa, Simpson dominance, Shannon-Wiener diversity and evenness, and species richness for Prince William Sound coarse textured site pairs. Taxa were consolidated at the family level or higher for analysis.

Site Number	Year	Month	Abundance (no. m ⁻²)	Number of Taxa	Simpson	Shannon-Wiener	S-W Even	Species Richness
506C	1990	Jun	7560.95	51.0	0.15	2.40	0.61	5.60
506C	1990	Jul	7937.23	51.0	0.14	2.45	0.62	5.57
506C	1991	May	5792.67	39.0	0.13	2.38	0.65	4.39
506	1989	Sep	6752.81	35.0	0.15	2.25	0.63	3.86
506	1990	Jun	7588.81	39.0	0.16	2.19	0.60	4.25
506	1990	Jul	11782.17	49.0	0.23	1.91	0.49	5.12
506	1991	May	9880.56	31.0	0.19	1.96	0.57	3.26
1598C	1990	Jun	7853.01	44.0	0.13	2.39	0.63	4.79
1598C	1990	Jul	7067.33	43.0	0.14	2.41	0.64	4.74
1598C	1991	May	6333.16	40.0	0.15	2.21	0.60	4.46
1598	1990	Jun	3248.55	25.0	0.25	1.86	0.58	2.97
1598	1990	Jul	8304.81	27.0	0.38	1.48	0.45	2.88
1598	1991	May	5293.15	21.0	0.23	1.80	0.59	2.33
846C	1990	Jun	4397.45	25.0	0.16	2.15	0.67	2.86
846C	1990	Jul	9096.32	51.0	0.20	2.02	0.51	5.49
846C	1991	May	6471.56	33.0	0.16	2.26	0.65	3.65
846	1990	Jun	6353.50	29.0	0.21	1.96	0.58	3.20
846	1990	Jul	6715.62	40.0	0.17	2.18	0.59	4.43
846	1991	May	11695.30	32.0	0.20	1.96	0.57	3.31
1650C	1990	Jun	8738.88	44.0	0.16	2.14	0.56	4.74
1650C	1990	Jul	12174.99	49.0	0.12	2.50	0.64	5.10
1650C	1991	May	7352.50	39.0	0.19	1.96	0.53	4.27
1650	1990	Jun	2112.89	20.0	0.24	1.66	0.56	2.48
1650	1990	Jul	3881.85	19.0	0.35	1.41	0.48	2.18
1650	1991	May	2365.54	17.0	0.63	0.94	0.33	2.06

Table D-43. Mean abundance (no. m^{-2}), number of taxa, Simpson dominance, Shannon-Wiener diversity and evenness, and species richness for Cook Inlet/Kenai Peninsula coarse textured site pairs. Taxa were consolidated at the family level or higher for analysis.

Site Number	Year	Month	Abundance (no. m^{-2})	Number of Taxa	Simpson	Shannon-Wiener	S-W Even	Species Richness
50389C	1990	Jul	3444.45	32.0	0.24	1.76	0.51	3.81
50389C	1990	Aug	5753.89	33.0	0.26	1.75	0.50	3.70
50389C	1991	May	2839.48	22.0	0.34	1.45	0.47	2.64
50389	1990	Jul	7710.56	43.0	0.13	2.52	0.67	4.69
50389	1990	Aug	9191.11	34.0	0.16	2.21	0.63	3.62
50389	1991	May	4520.76	37.0	0.09	2.66	0.74	4.28
51091C	1990	Jul	2351.11	22.0	0.17	1.98	0.64	2.71
51091C	1990	Aug	2967.00	19.0	0.26	1.69	0.58	2.25
51091C	1991	May	1531.11	16.0	0.22	1.86	0.67	2.05
51091	1989	Sep	7623.02	26.0	0.16	2.02	0.62	2.80
51091	1990	Jul	33045.22	17.0	0.90	0.27	0.10	1.54
51091	1990	Aug	14420.00	24.0	0.43	1.24	0.39	2.40
51091	1991	May	58184.41	17.0	0.91	0.26	0.09	1.46
62802C	1990	Jul	4483.34	33.0	0.18	2.24	0.64	3.81
62802C	1990	Aug	5401.11	33.0	0.30	1.88	0.54	3.72
62802C	1991	May	6707.39	24.0	0.17	2.02	0.64	2.61
50226	1989	Sep	3803.33	16.0	0.27	1.65	0.59	1.82
50226	1990	Jul	7323.34	33.0	0.15	2.23	0.64	3.60
50226	1990	Aug	5270.38	27.0	0.19	1.99	0.60	3.03
50226	1991	May	8386.85	27.0	0.22	1.87	0.57	2.88

Table D-44. Mean abundance (no. m⁻²), number of taxa, Simpson dominance, Shannon-Wiener diversity and evenness, and species richness or higher for Kodiak/Alaska Peninsula coarse textured site pairs. Taxa were consolidated at the family level or higher for analysis.

Site Number	Year	Month	Abundance (no. m ⁻²)	Number of Taxa	Simpson	Shannon-Wiener	Even	Species Richness
94935C	1989	Sep	9919.28	23.0	0.18	2.03	0.65	2.39
94935C	1990	Jul	4614.45	41.0	0.13	2.34	0.63	4.74
94935C	1990	Sep	7004.48	35.0	0.16	2.20	0.62	3.84
94935C	1991	May	6051.30	42.0	0.10	2.55	0.68	4.71
31288	1989	Sep	3198.89	19.0	0.50	1.04	0.35	2.23
31288	1990	Jul	5523.64	22.0	0.43	1.29	0.42	2.44
31288	1990	Sep	4713.26	29.0	0.53	1.11	0.33	3.31
31288	1991	May	6412.09	13.0	0.84	0.43	0.17	1.37
13.1C	1990	Jul	1583.86	21.0	0.32	1.43	0.47	2.71
13.1C	1990	Sep	1805.56	19.0	0.37	1.44	0.49	2.40
13.1C	1991	May	1172.78	16.0	0.24	1.63	0.59	2.12
13.1	1990	Jul	4550.56	19.0	0.33	1.41	0.48	2.14
13.1	1990	Sep	11800.00	24.0	0.56	0.98	0.31	2.45
13.1	1991	May	5254.45	25.0	0.50	1.22	0.38	2.80

Table D-45. Mean abundance (no. m⁻²), number of taxa, Simpson dominance, Shannon-Wiener diversity and evenness, and species richness for Prince William Sound sheltered estuary site pairs. Taxa were consolidated at the family level or higher for analysis.

Site Number	Year	Month	Abundance (no. m ⁻²)	Number of Taxa	Simpson	Shannon-Wiener	S-W Even	Species Richness
P15.1C	1990	Jun	2213.88	24.0	0.54	1.20	0.38	2.99
P15.1C	1990	Aug	7882.88	22.0	0.40	1.53	0.49	2.34
P15.1C	1991	Jun	4901.26	23.0	0.58	1.11	0.35	2.59
P15.1	1990	Aug	9597.24	19.0	0.71	0.75	0.25	1.96
P15.1	1991	Jun	8241.41	21.0	0.81	0.55	0.18	2.22
2397C	1989	Sep	40180.27	44.0	0.59	1.12	0.30	4.06
2397C	1990	Jun	10367.98	42.0	0.35	1.66	0.44	4.43
2397C	1990	Aug	9915.08	59.0	0.15	2.41	0.59	6.30
2397C	1991	Jun	6362.74	37.0	0.13	2.38	0.66	4.11
208/09	1989	Sep	3114.78	21.0	0.22	1.87	0.61	2.49
208/09	1990	Jun	3558.24	19.0	0.24	1.74	0.59	2.20
208/09	1990	Aug	6093.61	35.0	0.36	1.64	0.46	3.90
208/09	1991	Jun	4631.45	26.0	0.24	1.82	0.56	2.96

Table D-46. Mean abundance (no. m⁻²), number of taxa, Simpson dominance, Shannon-Wiener diversity and evenness, and species richness for Cook Inlet/Kenai Peninsula sheltered estuary site pairs. Taxa were consolidated at the family level or higher for analysis.

Site Number	Year	Month	Abundance (no. m ⁻²)	Number of Taxa	Simpson	Shannon-Wiener	S-W Even	Species Richness
C15.1C	1990	Jun	11350.09	33.0	0.38	1.62	0.46	3.43
C15.1C	1990	Jul	4449.04	23.0	0.41	1.50	0.48	2.62
C15.1C	1991	May	12758.71	25.0	0.34	1.51	0.47	2.54
C15.1	1990	Jun	12772.17	36.0	0.33	1.73	0.48	3.70
C15.1	1990	Jul	11674.44	26.0	0.22	1.81	0.56	2.67
C15.1	1991	May	15960.06	24.0	0.26	1.78	0.56	2.38
50981C	1990	Jun	5799.32	40.0	0.15	2.44	0.66	4.50
50981C	1990	Jul	7219.72	35.0	0.26	1.90	0.53	3.83
50981C	1991	May	10373.78	41.0	0.15	2.42	0.65	4.33
50221	1989	Sep	14605.07	25.0	0.27	1.66	0.51	2.50
50221	1990	Jun	8707.10	23.0	0.51	1.16	0.37	2.43
50221	1990	Jul	8068.69	24.0	0.31	1.61	0.51	2.56
50221	1991	May	10250.22	33.0	0.29	1.89	0.54	3.47
50981C	1990	Jun	5799.32	40.0	0.15	2.44	0.66	4.50
50981C	1990	Jul	7219.72	35.0	0.26	1.90	0.53	3.83
50981C	1991	May	10373.78	41.0	0.15	2.42	0.65	4.33
50981	1989	Sep	17753.29	20.0	0.48	1.18	0.39	1.94
50981	1990	Jun	9488.80	33.0	0.62	0.91	0.26	3.49
50981	1990	Jul	3980.84	15.0	0.52	1.14	0.42	1.69
50981	1991	May	10788.74	36.0	0.28	1.80	0.50	3.77

Table D-47. Mean abundance (no. m⁻²), number of taxa, Simpson dominance, Shannon-Wiener diversity and evenness, and species richness for Prince William Sound exposed rocky site pairs. Taxa were consolidated at the family level or higher for analysis.

Site Number	Year	Month	Abundance (no. m ⁻²)	Number of Taxa	Simpson	Shannon-Wiener	S-W Even	Species Richness
19C	1990	Jun	19347.78	34.0	0.22	1.90	0.54	3.34
19C	1990	Aug	5263.06	25.0	0.20	1.82	0.57	2.80
19C	1991	Jun	14066.11	46.0	0.18	2.13	0.56	4.71
19	1990	Jun	4616.12	42.0	0.14	2.40	0.64	4.86
19	1990	Aug	6517.56	46.0	0.11	2.50	0.65	5.12
19	1991	Jun	11538.00	44.0	0.44	1.45	0.38	4.60
1642C	1989	Sep	5718.88	30.0	0.22	1.94	0.57	3.35
1642C	1990	Jun	4061.69	31.0	0.27	1.60	0.46	3.61
1642C	1990	Aug	5717.78	47.0	0.12	2.54	0.66	5.32
1642C	1991	Jun	18752.79	48.0	0.19	1.96	0.51	4.78
833	1989	Sep	8452.23	35.0	0.25	1.90	0.53	3.76
833	1990	Jun	34569.16	31.0	0.53	1.03	0.30	2.87
833	1990	Aug	25666.94	58.0	0.40	1.73	0.43	5.61
833	1991	Jun	35228.88	43.0	0.28	1.76	0.47	4.01
4537C	1990	Jun	16234.75	70.0	0.12	2.60	0.61	7.12
4537C	1990	Aug	17695.56	57.0	0.20	2.15	0.53	5.73
4537C	1991	Jun	22601.54	76.0	0.09	2.79	0.64	7.48
979	1989	Sep	3958.89	55.0	0.08	2.89	0.72	6.52
979	1990	Jun	6196.11	68.0	0.12	2.50	0.59	7.67
979	1990	Aug	2921.00	56.0	0.07	3.01	0.75	6.89
979	1991	Jun	9174.45	73.0	0.08	3.06	0.71	7.89

Table D-48. Results of a jack-knife procedure testing for significant differences in Simpson dominance Shannon-Wiener diversity and evenness, and species richness indices for Prince William Sound sheltered rocky site pair 4825C-1424.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
4825C	1990	May	46	14	Simpson	0.1124	0.0913	0.0154	0.0641	0.1186
					Shannon	2.4756	2.6564	0.1359	2.4157	2.8971
					S-W Evenness	0.6466	0.6552	0.0353	0.5927	0.7177
					Sp. Richness	4.2411	5.1467	0.3314	4.5597	5.7336
4825C	1990	Jul	53	17	Simpson	0.0843	0.0736	0.0145	0.0483	0.0989
					Shannon	2.7966	2.9124	0.1485	2.6531	3.1717
					S-W Evenness	0.7044	0.7077	0.0382	0.6409	0.7744
					Sp. Richness	5.8641	6.6620	0.2762	6.1796	7.1443
4825C	1991	May	39	16	Simpson	0.1594	0.1288	0.0339	0.0693	0.1883
					Shannon	2.1709	2.3644	0.2274	1.9658	2.7630
					S-W Evenness	0.5926	0.5821	0.0450	0.5032	0.6611
					Sp. Richness	4.8117	6.5846	1.0290	4.7807	8.3884
1424	1990	May	47	16	Simpson	0.2137	0.2187	0.0231	0.1781	0.2592
					Shannon	1.9099	1.8813	0.1486	1.6209	2.1417
					S-W Evenness	0.4961	0.4432	0.0385	0.3757	0.5107
					Sp. Richness	4.3821	5.7424	0.6321	4.6343	6.8505
1424	1990	Jul	45	18	Simpson	0.2333	0.2054	0.0673	0.0883	0.3225
					Shannon	2.0658	2.2398	0.2276	1.8438	2.6358
					S-W Evenness	0.5427	0.5548	0.0529	0.4627	0.6469
					Sp. Richness	4.9122	6.0580	0.5251	5.1444	6.9716
1424	1991	May	49	18	Simpson	0.5145	0.5275	0.1277	0.3053	0.7497
					Shannon	1.3273	1.3146	0.3245	0.7499	1.8793
					S-W Evenness	0.3411	0.3074	0.0804	0.1675	0.4473
					sp. Richness	4.8617	6.4682	0.8848	4.9288	8.0077

Table D-48 (continued). **Results** of a jack-knife procedure testing for significant differences in **Simpson** dominance, **Shannon-Weiner** diversity and evenness, and species richness indices for Prince William Sound sheltered rocky site pair 453C-453.

Site	Year	Visit	Number of Taxa	n	Test	AU Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
453C	1990	May	50	16	Simpson	0.2437	0.2252	0.0712	0.1005	0.3500
					Shannon	2.0144	2.1242	0.2355	1.7115	2.5370
					S-W Evenness	0.5149	0.5078	0.0516	0.4174	0.5983
					Sp. Richness	4.6123	5.8245	0.5844	4.8001	6.8489
4536	1990	Jul	49	18	Simpson	0.3093	0.3089	0.1032	0.1293	0.4884
					Shannon	1.8426	1.8618	0.2865	1.3633	2.3603
					S-W Evenness	0.4734	0.4446	0.0718	0.3196	0.5696
					sp. Richness	4.7878	6.0733	0.5645	5.0912	7.0555
4536	1991	May	45	13	Simpson	0.2479	0.1173	0.0680	-0.0039	0.2384
					Shannon	1.8842	2.1266	0.1623	1.8374	2.4158
					S-W Evenness	0.4950	0.5307	0.0406	0.4583	0.6030
					SP. Richness	4.3566	5.2443	0.5474	4.2688	6.2198
453	1989	Aug	41	9	Simpson	0.1039	0.0913	0.0156	0.0623	0.1202
					Shannon	2.6162	2.8393	0.1014	2.6506	3.0280
					S-W Evenness	0.7045	0.6635	0.0668	0.5392	0.7878
					SP. Richness	5 . m	7.0815	1.3779	4.5186	9.6444
453	1990	May	37	15	Simpson	0.1621	0.1693	0.0468	0.0869	0.2517
					Shannon	2.3125	2.3374	0.2107	1.9663	2.7084
					S - W Evenness	0.6404	0.5833	0.0810	0.4406	0.7260
					SP. Richness	4.2962	5.6935	0.4583	4.8865	6.5005
453	1990	Jul	39	17	Simpson	0.1694	0.1681	0.0347	0.1075	0.2287
					Shannon	2.2207	2.2671	0.2012	1.9159	2.6183
					S-W Evenness	0.6062	0.5487	0.0437	0.4724	0.6250
					Sp. Richness	4.3256	5.7947	1.3987	3.3525	8.2369
453	1991	May	26	17	Simpson	0.1845	0.1360	0.0423	0.0620	0.2099
					Shannon	1.9630	2.1507	0.1329	1.9186	2.3828
					S-W Evenness	0.6025	0.5966	0.0270	0.5495	0.6437
					SP. Richness	3.0267	4.0365	0.4824	3.1942	4.8788

Table D-48 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Prince William Sound sheltered rocky site pair 601C-601.

Site	Year	Visit	Number of Taxa	<i>n</i>	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
601C	1990	May	49	17	Simpson	0.1857	0.1668	0.0466	0.0855	0.2481
					Shannon	2.2120	2.3421	0.1869	2.0157	2.6685
					S-W Evenness	0.5684	0.5551	0.0422	0.4815	0.6287
					Sp. Richness	5.4176	7.1049	0.6913	5.8979	8.3119
601C	1990	Jul	46	17	Simpson	0.1333	0.1044	0.0449	0.0260	0.1828
					Shannon	2.4380	2.6243	0.1760	2.3169	2.9317
					S-W Evenness	0.6368	0.6508	0.0412	0.5789	0.7227
					sp. Richness	4.6858	5.6508	0.3964	4.9587	6.3429
601C	1991	May	37	17	Simpson	0.3443	0.3443	0.0631	0.2341	0.4544
					Shannon	1.6285	1.6551	0.1760	1.3478	1.9625
					S-W Evenness	0.4510	0.4086	0.0571	0.3089	0.5082
					Sp. Richness	4.1945	5.7058	0.8817	4.1664	7.2451
601	1989	Aug	38	9	Simpson	0.1954	0.1443	0.0973	-0.0367	0.3252
					Shannon	2.1313	2.4947	0.4609	1.6374	3.3520
					S-W Evenness	0.5859	0.5756	0.0833	0.4207	0.7305
					Sp. Richness	4.2205	6.6447	1.6583	3.5602	9.7292
601	1990	May	55	18	Simpson	0.1796	0.1581	0.0787	0.0211	0.2951
					Shannon	2.3389	2.4663	0.2648	2.0057	2.9270
					S-W Evenness	0.5837	0.5573	0.0682	0.4386	0.6760
					Sp. Richness	6.1402	8.4821	0.9378	6.8503	10.1138
601	1990	Jul	49	18	Simpson	0.1318	0.1188	0.0335	0.0605	0.1771
					Shannon	2.4704	2.5691	0.1660	2.2802	2.8580
					S-W Evenness	0.6348	0.6177	0.0428	0.5432	0.6922
					sp. Richness	5.2340	6.5630	0.5922	5.5326	7.5935
601	1991	May	33	15	Simpson	0.1686	0.1337	0.0402	0.0628	0.2045
					Shannon	2.2366	2.4154	0.1153	2.2123	2.6185
					S-W Evenness	0.6397	0.6466	0.0424	0.5719	0.7213
					sp. Richness	3.6056	4.4400	0.4450	3.6563	5.2236

Table D-48 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Prince William Sound sheltered rocky site pair 598C-598.

Site	Year	Visit	Number of Taxa	<i>n</i>	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
598C	1990	May	31	14	Simpson	0.3332	0.3053	0.0862	0.1526	0.4580
					Shannon	1.6360	1.7259	0.2276	1.3229	2.1289
					S-W Evenness	0.4764	0.4733	0.0584	0.3698	0.5768
					sp. Richness	3.6960	4.4658	0.3603	3.8278	5.1038
598C	1990	Jul	42	17	Simpson	0.1771	0.1683	0.0332	0.1103	0.2263
					Shannon	2.1831	2.2419	0.1209	2.0308	2.4531
					S-W Evenness	0.5841	0.5746	0.0317	0.5193	0.6300
					sp. Richness	4.4212	5.1226	0.3424	4.5247	5.7205
598C	1991	May	37	17	Simpson	0.4636	0.4619	~~0.0678~~	0.3436	~~0.5802~~
					Shannon	1.4137	1.4457	0.1794	1.1324	1.7590
					S-W Evenness	0.3915	0.3627	0.0462	0.2819	0.4434
					Sp. Richness	4.0827	5.4683	~~0.6187~~	4.3881	6.5485
598	1989	Aug	36	9	Simpson	0.3703	0.3326	0.1677	0.0207	0.6445
					Shannon	1.5651	~~1.7533~~	0.4797	0.8610	~~2.6455~~
					S-W Evenness	0.4367	0.4477	~~0.1206~~	0.2234	~~0.6721~~
					sp. Richness	3.6183	~~4.8906~~	0.7739	3.4511	6.3302
598	1990	May	50	18	Simpson	0.2207	~~0.2107~~	0.0515	0.1212	~~0.3003~~
					Shannon	2.1190	2.1777	0.1830	1.8593	~~2.4962~~
					S-W Evenness	0.5417	0.5220	~~0.0428~~	0.4476	0.5965
					sp. Richness	5.3529	~~6.6876~~	0.4371	5.9271	7.4481
598	1990	Jul	49	18	Simpson	0.1526	0.1396	0.0193	~~0.1060~~	0.1732
					Shannon	2.2744	2.3316	0.0755	~~2.2003~~	2.4630
					S-W Evenness	0.5844	0.5604	~~0.0187~~	0.5278	0.5929
					Sp. Richness	~~5.0486~~	~~6.3355~~	0.4177	5.6086	7.0623
598	1991	May	41	17	Simpeon	0.1868	0.1656	0.0408	~~0.0943~~	0.2369
					Shannon	2.2110	2.3511	0.1546	~~2.0812~~	2.6210
					S-W Evenness	0.5954	0.5839	0.0363	0.5204	~~0.6473~~
					sp. Richness	4.5568	5.9373	0.4791	5.1007	6.7739

Table D-48 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Prince William Sound sheltered rocky site pair 1522C-1522.

Site	Year	Visit	Number of Taxa	n	Test	AU Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
1522C	1990	May	35	16	Simpson	0.2693	0.2607	0.0561	0.1624	0.3590
					Shannon	1.8449	1.9026	0.1665	1.6106	2.1946
					S-W Evenness	0.5189	0.4899	0.0446	0.4117	0.5682
					sp. Richness	3.7455	4.8700	0.5019	3.9900	5.7499
1522C	1990	Jul	40	18	Simpeon	0.1865	0.1776	0.0473	0.0954	0.2599
					Shannon	2.1697	2.2480	0.1679	1.9569	2.5401
					S-W Evenness	0.5882	0.5429	0.0498	0.4563	0.6295
					sp. Richness	4.3774	5.9576	1.1632	3.9336	7.9816
1522C	1991	May	35	18	Simpeon	0.2498	0.2407	0.0477	0.1577	0.3236
					Shannon	1.8521	1.9143	0.1289	1.6900	2.1386
					S-W Evenness	0.5209	0.4912	0.0411	0.4197	0.5627
					sp. Richness	3.7222	4.8458	0.6268	3.7551	5.9365
1522	1989	Aug	14	7	Simpson	0.2251	0.1146	0.0719	-0.0252	0.2544
					Shannon	1.6687	1.9970	0.2414	1.5278	2.4661
					S-W Evenness	0.6323	0.7435	0.0802	0.5876	0.8995
					Sp. Richness	1.3313	1.3811	0.0525	1.2791	1.4832
1522	1990	May	28	11	Simpson	0.2341	0.2075	0.0170	0.1767	0.2383
					Shannon	1.8641	1.9929	0.0818	1.8448	2.1411
					S-W Evenness	0.5594	0.5461	0.0118	0.5247	0.5675
					Sp. Richness	2.7852	3.7054	0.4008	2.9792	4.4317
1522	1990	Jul	45	18	Simpson	0.1909	0.1826	0.0347	0.1223	0.2429
					Shannon	2.0899	2.1345	0.1128	1.9382	2.3307
					S-W Evenness	0.5490	0.5260	0.0255	0.4817	0.5703
					sp. Richness	4.2383	5.2245	0.5129	4.3321	6.1169
1522	1991	May	43	17	Simpson	0.1793	0.1628	0.0145	0.1375	0.1881
					Shannon	2.0693	2.1632	0.1112	1.9690	2.3574
					S-W Evenness	0.5502	0.5177	0.0297	0.4658	0.5695
					Sp. Richness	4.2920	5.9141	0.6399	4.7968	7.0314

Table D49. Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon–Wiener diversity and evenness, and species richness Indices for Cook Inlet/Kenai Peninsula sheltered rocky site pair 14.1C–14.1.

Site	Year	Visit	Number of Taxa	<i>n</i>	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
14.1C	1990	Jun	49	18	Simpson	0.1866	0.1712	0.0246	0.1283	0.2140
					Shannon	2.0908	2.1561	0.1706	1.8593	2.4529
					S–W Evenness	0.5372	0.5239	0.0409	0.4527	0.5950
					sp. Richness	5.0830	6.1712	0.5353	5.2399	7.1026
14.1C	1990	Aug	50	18	Simpson	0.1688	0.1518	0.0390	0.0838	0.2197
					Shannon	2.2434	2.3599	0.2306	1.9586	2.7612
					S–W Evenness	0.5735	0.5773	0.0545	0.4825	0.6722
					sp. Richness	5.0286	5.8906	0.5923	4.8600	6.9211
14.1C	1991	May	49	18	Simpson	0.1771	0.1702	0.0342	0.1106	0.2298
					Shannon	2.2124	2.2636	0.1959	1.9228	2.6044
					S–W Evenness	0.5685	0.5464	0.0320	0.4908	0.6021
					sp. Richness	4.7726	5.8901	0.7253	4.6281	7.1521
14.1	1990	Jun	61	18	Simpson	0.1070	0.0818	0.0358	0.0195	0.1442
					Shannon	2.6206	2.7796	0.1980	2.4351	3.1242
					S–W Evenness	0.6375	0.6441	0.0397	0.5751	0.7132
					Sp. Richness	6.5087	7.8137	0.6533	6.6769	8.9505
14.1	1990	Aug	60	18	Simpson	0.1623	0.0704	0.0311	0.0164	0.1245
					Shannon	2.2328	2.5461	0.1033	2.3664	2.7258
					S–W Evenness	0.5453	0.5921	0.0207	0.5561	0.6280
					sp. Richness	6.0856	7.3850	0.5242	6.4729	8.2972
14.1	1991	May	36	15	Simpson	0.2234	0.1990	0.0600	0.0933	0.3047
					Shannon	1.8682	1.9455	0.2170	1.5634	2.3276
					S–W Evenness	0.5213	0.5110	0.0565	0.4115	0.6106
					sp. Richness	3.8193	4.6176	0.5515	3.6464	5.5888

Table D-49 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Cook Inlet/Kenai Peninsula sheltered rocky site pair 14.2C-14.2.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
14.2C	1990	Jun	45	13	Simpson	0.1905	0.0626	0.1019	-0.1190	0.2442
					Shannon	2.0705	2.5971	0.4212	1.8464	3.3477
					S-W Evenness	0.5439	0.6379	0.0730	0.5079	0.7680
					sp. Richness	4.4176	5.6783	0.9144	4.0489	7.3077
14.2C	1990	Aug	41	15	Simpson	0.3004	0.1976	0.0550	0.1008	0.2945
					Shannon	1.6383	1.8352	0.1939	1.4937	2.1768
					S-W Evenness	0.4412	0.4316	0.0294	0.3707	0.4834
					sp. Richness	4.0400	5.8132	1.3996	3.3484	8.2779
14.2C	1991	May	40	15	Simpson	0.3288	0.3267	0.0392	0.2577	0.3957
					Shannon	1.5080	1.5383	0.1845	1.2134	1.8632
					S-W Evenness	0.4088	0.3800	0.0452	0.3003	0.4596
					sp. Richness	3.8257	4.9851	0.8335	3.5174	6.4529
14.2	1990	Jun	53	15	Simpson	0.2351	0.1295	0.0993	-0.0453	0.3044
					Shannon	1.9096	2.1513	0.3735	1.4936	2.8091
					S-W Evenness	0.4810	0.4834	0.0745	0.3522	0.6146
					Sp. Richness	5.4656	7.7263	1.7375	4.6665	10.7861
14.2	1990	Aug	45	18	Simpson	0.2127	0.1781	0.0394	0.1095	0.2467
					Shannon	1.9009	2.0025	0.1555	1.7319	2.2731
					S-W Evenness	0.4994	0.4915	0.0455	0.4124	0.5706
					sp. Richness	4.5659	5.7302	0.3608	5.1025	6.3579
14.2	1991	May	41	18	Simpson	0.2158	0.1921	0.0305	0.1391	0.2451
					Shannon	1.9609	2.0701	0.1580	1.7952	2.3450
					S-W Evenness	0.5280	0.5303	0.0354	0.4688	0.5918
					sp. Richness	4.2302	5.0196	0.4806	4.1834	5.8557

Table D-49 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Cook Inlet/Kenai Peninsula sheltered rocky site pair 62762C-50983.

Site	Year	Visit	Number of Taxa	n	Test	AU Quadrats Index	Jack-Knife Index	Standard Error	Loner Limit	Upper Limit
62762C	1989	Sep	46	9	Simpson	0.1938	0.1439	0.1084	-0.0577	0.3456
					Shannon	2.1191	2.3297	0.3780	1.6266	3.0328
					S-W Evenness	0.5535	0.5818	0.0965	0.4023	0.7614
					sp. Richness	4.4750	5.2093	0.6475	4.0050	6.4136
62762C	1990	Jun	58	18	Simpson	0.1629	0.1257	0.0284	0.0763	0.1752
					Shannon	2.2238	2.3466	0.1422	2.0992	2.5940
					S-W Evenness	0.5477	0.5623	0.0362	0.4993	0.6253
					sp. Richness	5.2060	5.7935	0.2103	5.4275	6.1595
62762C	1990	Aug	53	18	Simpson	0.1924	0.1743	0.0130	0.1516	0.1970
					Shannon	2.1066	2.1950	0.0858	2.0458	2.3443
					S-W Evenness	0.5306	0.5383	0.0210	0.5018	0.5747
					Sp. Richness	5.0916	5.6189	0.3533	5.0040	6.2337
62762C	1991	May	48	18	Simpson	0.3624	0.3649	0.0886	0.2108	0.5191
					Shannon	1.6010	1.6280	0.2081	1.2659	1.9902
					S-W Evenness	0.4136	0.3898	0.0520	0.2993	0.4803
					sp. Richness	4.5757	5.8460	0.6189	4.7692	6.9229
50983	1989	Sep	31	8	Simpson	0.2836	0.2785	0.0531	0.1780	0.3790
					Shannon	1.6971	1.7544	0.1457	1.4783	2.0305
					S-W Evenness	0.4942	0.4658	0.0310	0.4070	0.5246
					sp. Richness	3.1160	4.0057	0.5760	2.9141	5.0973
50983	1990	Jun	40	15	Simpson	0.2926	0.2685	0.0806	0.1266	0.4103
					Shannon	1.6510	1.7484	0.2551	1.2992	2.1975
					S-W Evenness	0.4476	0.4367	0.0654	0.3216	0.5518
					sp. Richness	4.0542	5.3076	0.3577	4.6777	5.9374
50983	1990	Aug	36	16	Simpson	0.3643	0.3530	0.0985	0.1803	0.5258
					Shannon	1.3454	1.3646	0.1929	1.0265	1.7027
					S-W Evenness	0.3754	0.3459	0.0588	0.2427	0.4490
					sp. Richness	3.6509	4.8036	0.4029	4.0974	5.5098
50983	1991	May	43	18	Simpson	0.3865	0.3898	0.0556	0.2931	0.4865
					Shannon	1.4586	1.4616	0.1751	1.1570	1.7662
					S-W Evenness	0.3878	0.3673	0.0446	0.2898	0.4448
					sp. Richness	4.2581	5.1082	0.5044	4.2306	5.9859

Table D-50. Results of a jack-knife procedure testing for significant differences in Simpson dominance Shannon-Wiener diversity and evenness, and species richness indices for Kodiak/Alaska Peninsula sheltered rocky site pair 30196C-30196.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
30196C	1990	Jun	55	17	Simpson	0.0979	0.0875	0.0242	0.0452	0.1297
					Shannon	2.8034	2.9225	0.1700	2.6257	3.2193
					S-W Evenness	0.6996	0.7019	0.0368	0.6376	0.7662
					Sp. Richness	5.7792	6.6747	0.4805	5.8358	7.5136
30196C	1990	Aug	56	18	Simpson	0.0776	0.0613	0.0172	0.0315	0.0912
					Shannon	2.8858	3.0443	0.1315	2.8154	3.2731
					S-W Evenness	0.7169	0.7225	0.0246	0.6798	0.7653
					sp. Richness	5.6734	6.7328	0.4757	5.9051	7.5605
30196C	1991	May	47	18	Simpson	0.2100	0.1979	0.0336	0.1394	0.2563
					Shannon	2.0593	2.1446	0.1638	1.8596	2.4296
					S-W Evenness	0.5349	0.5256	0.0417	0.4530	0.5982
					sp. Richness	4.9637	6.0598	0.3589	5.4354	6.6843
30196	1989	Sep	56	9	Simpson	0.0853	0.0335	0.0493	-0.0582	0.1253
					Shannon	2.8659	3.3071	0.3467	2.6623	3.9520
					S-W Evenness	0.7120	0.7718	0.0843	0.6151	0.9285
					sp. Richness	5.5502	7.0661	0.6857	5.7906	8.3415
30196	1990	Jun	55	17	Simpson	0.1146	0.1059	0.0186	0.0734	0.1383
					Shannon	2.6565	2.7419	0.1470	2.4852	2.9986
					S-W Evenness	0.6629	0.6554	0.0310	0.6013	0.7095
					sp. Richness	5.6118	6.5753	0.4767	5.7430	7.4077
30196	1990	Aug	65	18	Simpson	0.0902	0.0841	0.0178	0.0532	0.1150
					Shannon	2.7897	2.8290	0.1876	2.5025	3.1554
					S-W Evenness	0.6683	0.6538	0.0456	0.5745	0.7331
					sp. Richness	6.1153	6.9858	0.4182	6.2581	7.7135
30196	1991	May	52	16	Simpson	0.1135	0.0754	0.0374	0.0099	0.1409
					Shannon	2.5568	2.7067	0.1212	2.4942	2.9193
					S-W Evenness	0.6471	0.6435	0.0247	0.6002	0.6868
					Sp. Richness	5.5868	6.8017	1.0191	5.0152	8.5881

Table D-50 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness: and species richness indices for Kodiak/Alaska Peninsula sheltered rocky site pair 31252C-31252.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
31252C	1990	Jun	33	18	Simpson	0.4951	0.5003	0.0507	0.4122	0.5885
					Shannon	1.1769	1.1773	0.1342	0.9438	1.4108
					S-W Evenness	0.3366	0.3130	0.0446	0.2354	0.3906
					Sp. Richness	3.3994	4.1980	0.3237	3.6349	4.7612
31252C	1990	Aug	31	18	Simpson	0.5250	0.5278	0.0710	0.4043	0.6514
					Shannon	1.1647	1.1704	0.1664	0.8808	1.4600
					S-W Evenness	0.3392	0.3287	0.0467	0.2474	0.4099
					Sp. Richness	3.0268	3.4012	0.2208	3.0170	3.7854
31252C	1991	May	23	16	Simpson	0.3545	0.3526	0.0638	0.2407	0.4645
					Shannon	1.4687	1.4958	0.1611	1.2135	1.7782
					S-W Evenness	0.4684	0.4390	0.0483	0.3542	0.5237
					sp. Richness	2.4846	3.1151	0.2954	2.5973	3.6329
31252	1990	Jun	40	18	Simpson	0.4270	0.4207	0.0559	0.3234	0.5179
					Shannon	1.3002	1.3234	0.1300	1.0972	1.5496
					S-W Evenness	0.3525	0.3277	0.0319	0.2721	0.3833
					sp. Richness	3.8766	5.0885	0.6430	3.9697	6.2072
31252	1990	Aug	51	18	Simpson	0.4179	0.4117	0.0705	0.2891	0.5344
					Shannon	1.4676	1.5007	0.1568	1.2279	1.7736
					S-W Evenness	0.3733	0.3586	0.0452	0.2800	0.4372
					Sp. Richness	4.9176	6.0300	0.6692	4.8656	7.1944
31252	1991	May	32	17	Simpson	0.4541	0.4485	0.0585	0.3464	0.5506
					Shannon	1.2000	1.2209	0.1304	0.9933	1.4485
					S-W Evenness	0.3463	0.3130	0.0372	0.2480	0.3780
					sp. Richness	3.0991	4.2169	0.6763	3.0361	5.3978

Table **D-50** (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon–Wiener diversity and evenness, and species richness indices **for** Kodiak/Alaska Peninsula sheltered rocky site pair 31252C–31248.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
31252C	1990	Jun	33	18	Simpson	0.4951	0.5003	0.0507	0.4122	0.5885
					Shannon	1.1769	1.1773	0.1342	0.9438	1.4108
					S–W Evenness	0.3366	0.3130	0.0446	0.2354	0.3906
					sp. Richness	3.3994	4.1980	0.3237	3.6349	4.7612
312526	1990	Aug	31	18	Simpson	0.5250	0.5278	0.0710	0.4043	0.6514
					Shannon	1.1647	1.1704	0.1664	0.8808	1.4600
					S–W Evenness	0.3392	0.3287	0.0467	0.2474	0.4099
					Sp. Richness	3.0268	3.4012	0.2208	3.0170	3.7854
31252C	1991	May	23	16	Simpson	0.3545	0.3526	0.0638	0.2407	0.4645
					Shannon	1.4687	1.4958	0.1611	1.2135	1.7782
					S–W Evenness	0.4684	0.4390	0.0483	0.3542	0.5237
					Sp. Richness	2.4846	3.1151	0.2954	2.5973	3.6329
31248	1989	Sep	25	9	Simpson	0.6182	0.6073	0.1065	0.4091	0.8054
					Shannon	0.7914	0.8278	0.1730	0.5060	1.1497
					S–W Evenness	0.2459	0.2240	0.0563	0.1192	0.3287
					sp. Richness	2.5115	3.5306	0.4690	2.6582	4.4029
31248	1990	Jun	32	17	Simpson	0.5477	0.5529	0.0812	0.4111	0.6947
					Shannon	1.0491	1.0584	0.1629	0.7740	1.3429
					S–W Evenness	0.3027	0.2812	0.0453	0.2022	0.3603
					sp. Richness	3.3975	4.3128	0.4442	3.5372	5.0884
31248	1990	Aug	48	18	Simpson	0.4947	0.4902	0.0759	0.3581	0.6223
					Shannon	1.3103	1.3565	0.2060	0.9981	1.7148
					S–W Evenness	0.3385	0.3083	0.0454	0.2294	0.3873
					Sp. Richness	4.7209	6.7161	1.4165	4.2513	9.1808
31248	1991	May	34	18	Simpson	0.4048	0.4061	0.0427	0.3318	0.4803
					Shannon	1.3924	1.4144	0.1433	1.1652	1.6637
					S–W Evenness	0.3948	0.3673	0.0305	0.3142	0.4204
					sp. Richness	3.4482	4.4249	0.7004	3.2062	5.6436

Table D-50 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon–Wiener diversity and evenness, and species richness indices for Kodiak/Alaska Peninsula sheltered rocky site pair 99826C–33141.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
998266	1989	Sep	26	7	Simpson	0.3209	0.0858	0.1515	-0.2086	0.3803
					Shannon	1.4555	1.9090	0.2510	1.4214	2.3966
					S–W Evenness	0.4467	0.5373	0.0663	0.4085	0.6662
					sp. Richness	2.5197	3.4257	0.5300	2.3960	4.4555
99826C	1990	Jun	40	13	Simpeon	0.2579	0.0803	0.0693	-0.0433	0.2038
					Shannon	1.7229	2.1562	0.2194	1.7652	2.5473
					S–W Evenness	0.4671	0.5609	0.0569	0.4596	0.6623
					sp. Richness	4.0170	4.8376	0.3344	4.2417	5.4336
99826C	1990	Aug	47	16	Simpson	0.2233	0.1408	0.0611	0.0338	0.2478
					Shannon	1.9656	2.2232	0.1865	1.8962	2.5502
					S–W Evenness	0.5105	0.5323	0.0470	0.4499	0.6147
					sp. Richness	4.5267	5.9882	0.6492	4.8500	7.1263
99826C	1991	May	31	16	Simpson	0.2788	0.2368	0.1021	0.0578	0.4158
					Shannon	1.8542	2.0422	0.2535	1.5979	2.4866
					S–W Evenness	0.5400	0.5754	0.0722	0.4488	0.7020
					sp. Richness	3.1077	3.4858	0.2530	3.0424	3.9293
33141	1989	Sep	43	3	Simpson	0.1454	0.0810	0.0545	-0.0782	0.2402
					Shannon	2.2723	2.6251	0.2673	1.8445	3.4056
					S–W Evenness	0.6041	0.6366	0.0328	0.5409	0.7323
					sp. Richness	3.5991	4.6498	0.3435	3.6468	5.6528
33141	1990	Jun	42	17	Simpson	0.1042	0.0835	0.0136	0.0597	0.1073
					Shannon	2.5523	2.7188	0.1155	2.5170	2.9205
					S–W Evenness	0.6829	0.6678	0.0245	0.6250	0.7106
					Sp. Richness	4.4920	5.9288	0.5400	4.9858	6.8717
33141	1990	Aug	59	16	Simpson	0.1240	0.0893	0.0425	0.0148	0.1637
					Shannon	2.5350	2.7239	0.1366	2.4845	2.9634
					S–W Evenness	0.6217	0.6036	0.0475	0.5203	0.6870
					sp. Richness	6.2525	8.6323	1.1958	6.5360	10.7286
33141	1991	May	35	18	Simpson	0.1119	0.0893	0.0151	0.0631	0.1155
					Shannon	2.4748	2.6342	0.0875	2.4820	2.7864
					S–W Evenness	0.6961	0.6920	0.0238	0.6506	0.7334
					sp. Richness	3.9222	4.8883	0.3880	4.2131	5.5634

Table D-51. Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Prince William Sound coarse textured site pair 506C-506.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
506C	1990	Jun	51	17	Simpson	0.1522	0.1477	0.0338	0.0886	0.2068
					Shannon	2.4033	2.4470	0.1223	2.2335	2.6805
					S-W Evenness	0.6112	0.5894	0.0355	0.5275	0.6513
					sp. Richness	5.5986	6.7503	0.5053	5.8680	7.6327
506C	1990	Jul	51	17	Simpson	0.1355	0.1272	0.0237	0.0859	0.1685
					Shannon	2.4500	2.5270	0.1143	2.3275	2.7265
					S-W Evenness	0.6231	0.5910	0.0321	0.5350	0.6470
					sp. Richness	5.5684	7.2271	1.0788	5.3435	9.1108
506C	1991	May	39	18	Simpson	0.1311	0.1231	0.0143	0.0982	0.1480
					Shannon	2.3842	2.4598	0.1007	2.2845	2.6351
					S-W Evenness	0.6508	0.6406	0.0259	0.5955	0.6857
					sp. Richness	4.3858	5.1392	0.3486	4.5326	5.7457
506	1989	Sep	35	8	Simpson	0.1520	0.1314	0.0127	0.1073	0.1555
					Shannon	2.2473	2.4308	0.1296	2.1852	2.6764
					S-W Evenness	0.6321	0.6005	0.0260	0.5513	0.6498
					Sp. Richness	3.8559	5.5368	0.7541	4.1078	6.9658
506	1990	Jun	39	12	Simpson	0.1609	0.1206	0.0384	0.0517	0.1894
					Shannon	2.1897	2.3936	0.1613	2.1039	2.6833
					S-W Evenness	0.5977	0.5890	0.0345	0.5271	0.6509
					Sp. Richness	4.2532	5.8641	0.5772	4.8275	6.9006
506	1990	Jul	49	12	Simpson	0.2303	0.1754	0.0624	0.0634	0.2874
					Shannon	1.9077	2.0316	0.1790	1.7100	2.3531
					S-W Evenness	0.4902	0.4725	0.0603	0.3642	0.5807
					sp. Richness	5.1204	6.9594	0.8558	5.4224	8.4963
506	1991	May	31	12	Simpson	0.1935	0.1519	0.0332	0.0923	0.2114
					Shannon	1.9637	2.1247	0.1300	1.8913	2.3582
					S-W Evenness	0.5719	0.5444	0.0511	0.4527	0.6361
					sp. Richness	3.2615	4.5455	0.7988	3.1108	5.9801

Table D-51 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Prince William Sound coarse textured site pair 1598C-1598.

Site	Year	Visit	Number of Taxa	n	Test	AU Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
1598C	1990	Jun	44	14	Simpson	0.1345	0.1006	0.0299	0.0477	0.1535
					Shannon	2.3891	2.5747	0.2233	2.1792	2.9703
					S-W Evenness	0.6313	0.5942	0.0388	0.5255	0.6628
					Sp. Richness	4.7945	6.9517	1.4327	4.4143	9.4891
1598C	1990	Jul	43	15	Simpson	0.1368	0.1188	0.0305	0.0652	0.1725
					Shannon	2.4095	2.5227	0.1320	2.2903	2.7551
					S-W Evenness	0.6406	0.6402	0.0399	0.5700	0.7105
					Sp. Richness	4.7387	5.5603	0.3254	4.9873	6.1334
15986	1991	May	40	14	Simpson	0.1518	0.1160	0.0250	0.0718	0.1603
					Shannon	2.2132	2.3805	0.1580	2.1006	2.6604
					S-W Evenness	0.6000	0.5727	0.0337	0.5130	0.6323
					Sp. Richness	4.4553	6.3566	0.8323	4.8826	7.8306
1598	1990	Jun	25	14	Simpson	0.2488	0.2377	0.0638	0.1247	0.3507
					Shannon	1.8595	1.9472	0.3217	1.3776	2.5169
					S-W Evenness	0.5777	0.5228	0.0534	0.4283	0.6174
					Sp. Richness	2.9681	4.2224	0.9201	2.5929	5.8520
1598	1990	Jul	27	15	Simpson	0.3765	0.3711	0.0264	0.3245	0.4177
					Shannon	1.4842	1.5216	0.0844	1.3730	1.6703
					S-W Evenness	0.4503	0.4313	0.0130	0.4085	0.4542
					Sp. Richness	2.8810	3.4715	0.4338	2.7077	4.2354
1598	1991	May	21	15	Simpson	0.2326	0.2289	0.0434	0.1524	0.3055
					Shannon	1.7984	1.8466	0.1903	1.5114	2.1818
					S-W Evenness	0.5907	0.5607	0.0574	0.4597	0.6617
					Sp. Richness	2.3326	2.8596	0.3633	2.2199	3.4993

Table D-51 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indica for Prince William Sound coarse textured site pair 846C-846.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
846C	1990	Jun	25	17	Simpson	0.1635	0.1442	0.0349	0.0833	0.2051
					Shannon	2.1505	2.2874	0.1601	2.0079	2.5669
					S-W Evenness	0.6681	0.6300	0.0428	0.5552	0.7048
					sp. Richness	2.8610	3.9781	0.2890	3.4734	4.4828
846C	1990	Jul	51	17	Simpson	0.2020	0.1942	0.0303	0.1412	0.2472
					Shannon	2.0171	2.0703	0.1619	1.7876	2.3529
					S-W Evenness	0.5130	0.4557	0.0320	0.3997	0.5116
					Sp. Richness	5.4851	7.9519	1.8503	4.7213	11.1825
846C	1991	May	33	16	Simpson	0.1582	0.1498	0.0362	0.0864	0.2132
					Shannon	2.2602	2.3372	0.2057	1.9765	2.6978
					S-W Evenness	0.6464	0.6366	0.0511	0.5470	0.7261
					Sp. Richness	3.6467	4.2806	0.2953	3.7629	4.7983
846	1990	Jun	29	17	Simpeon	0.2147	0.2019	0.0264	0.1559	0.2480
					Shannon	1.9610	2.0375	0.1261	1.8174	2.2576
					S-W Evenness	0.5824	0.5645	0.0392	0.4961	0.6330
					SP. Richness	3.1975	3.9450	0.2697	3.4740	4.4159
846	1990	Jul	40	18	Simpson	0.1685	0.1564	0.0265	0.1103	0.2024
					Shannon	2.1827	2.2698	0.1152	2.0693	2.4702
					S-W Evenness	0.5917	0.5572	0.0308	0.5036	0.6108
					sp. Richness	4.4257	5.9121	0.8964	4.3522	7.4719
846	1991	May	32	18	Simpson	0.2049	0.1952	0.0351	0.1342	0.2563
					Shannon	1.9615	2.0513	0.2083	1.6889	2.4138
					S-W Evenness	0.5660	0.5232	0.0328	0.4660	0.5803
					SP. Richness	3.3095	4.6191	0.8035	3.2211	6.0172

Table D-51 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Prince William Sound coarse textured site pair 1650C-1650.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
1650C	1990	Jun	44	18	Simpson	0.1620	0.1461	0.0303	0.0934	0.1988
					Shannon	2.1380	2.2539	0.1658	1.9654	2.5423
					S-W Evenness	0.5650	0.5342	0.0231	0.4940	0.5743
					Sp. Richness	4.7380	6.5094	1.1878	4.4427	8.5761
1650C	1990	Jul	49	16	Simpson	0.1168	0.0621	0.0358	0.0007	0.1249
					Shannon	2.4992	2.8700	0.2487	2.4340	3.3060
					S-W Evenness	0.6422	0.6828	0.0508	0.5937	0.7719
					Sp. Richness	5.1025	6.7848	0.6378	5.6667	7.9029
1650C	1991	May	39	18	Simpson	0.1863	0.1801	0.0210	0.1435	0.2167
					Shannon	1.9556	1.9829	0.1041	1.8018	2.1641
					S-W Evenness	0.5338	0.4914	0.0281	0.4426	0.5403
					sp. Richness	4.2683	5.6276	0.7963	4.2421	7.0132
1650	1990	Jun	20	14	Simpson	0.2443	0.1891	0.0697	0.0657	0.3125
					Shannon	1.6560	1.7881	0.2109	1.4146	2.1617
					S-W Evenness	0.5528	0.5091	0.0926	0.3451	0.6730
					Sp. Richness	2.4724	3.5498	0.5245	2.6208	4.4787
1650	1990	Jul	19	18	Simpson	0.3479	0.3293	0.1168	0.1261	0.5326
					Shannon	1.4053	1.4181	0.2943	0.9059	1.9303
					S-W Evenness	0.4773	0.4205	0.0989	0.2484	0.5926
					Sp. Richness	2.1781	2.9487	0.4391	2.1846	3.7128
1650	1991	May	17	18	Simpson	0.6328	0.6382	0.1784	0.3278	0.9485
					Shannon	0.9375	1.0081	0.3696	0.3650	1.6512
					S-W Evenness	0.3309	0.3073	0.1345	0.0733	0.5414
					Sp. Richness	2.0595	2.8921	0.2352	2.4828	3.3014

Table D-52. Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Cook Inlet/Kenai Peninsula coarse textured site pair 50389C-50389.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
50389C	1990	Jul	32	18	<i>Simpson</i>	0.2365	0.1816	0.0426	0.1074	0.2557
					<i>Shannon</i>	1.7606	1.9554	0.1763	1.6486	2.2622
					<i>S-W Evenness</i>	0.5080	0.5057	0.0487	0.4210	0.5904
					<i>Sp. Richness</i>	3.8062	5.3010	0.4129	4.5825	6.0195
50389C	1990	Aug	33	18	<i>Simpson</i>	0.2576	0.1182	0.0691	0.0580	0.2984
					<i>Shannon</i>	1.7506	1.9737	0.1909	1.6415	2.3059
					<i>S-W Evenness</i>	0.5007	0.4930	0.0614	0.3863	0.5998
					<i>sp. Richness</i>	3.6962	5.2293	1.0765	3.3562	7.1024
50389C	1991	May	22	17	<i>Simpson</i>	0.3433	0.2438	0.1829	-0.0755	0.5631
					<i>Shannon</i>	1.4512	1.6863	0.3638	1.0512	2.3215
					<i>S-W Evenness</i>	0.4695	0.4736	0.0969	0.3043	0.6429
					<i>sp. Richness</i>	2.6411	3.9361	0.5362	2.9998	4.8723
50389	1990	Jul	43	18	<i>Simpson</i>	0.1302	0.1005	0.0413	0.0286	0.1723
					<i>Shannon</i>	2.5168	2.7204	0.1100	2.5291	2.9117
					<i>S-W Evenness</i>	0.6692	0.6669	0.0479	0.5835	0.7503
					<i>sp. Richness</i>	4.6926	6.0587	0.7139	4.8166	7.3009
50389	1990	Aug	34	18	<i>Simpson</i>	0.1629	0.1181	0.0674	0.0008	0.2353
					<i>Shannon</i>	2.2092	2.3566	0.3094	1.8183	2.8949
					<i>S-W Evenness</i>	0.6265	0.6160	0.0996	0.4426	0.7893
					<i>sp. Richness</i>	3.6160	4.5793	0.2639	4.1201	5.0384
50389	1991	May	37	18	<i>Simpson</i>	0.0917	0.0589	0.0227	0.0195	0.0984
					<i>Shannon</i>	2.6612	2.9383	0.1996	2.5909	3.2857
					<i>S-W Evenness</i>	0.7370	0.7548	0.0328	0.6977	0.8119
					<i>Sp. Richness</i>	4.2173	5.4970	0.4980	4.6306	6.3635

Table D-52 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Cook Inlet/Kenai Peninsula coarse textured site pair 51091C-51091.

Site	Year	Visit	Number of Taxa	n	Test	AU Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
51091C	1990	Jul	22	18	Simpson	0.1728	0.0862	0.0551	-0.0096	0.1820
					Shannon	1.9842	2.3664	0.2361	1.9557	2.7772
					S-W Evenness	0.6419	0.7003	0.0744	0.5708	0.8297
					Sp. Richness	2.7053	3.5432	0.3743	2.8919	4.1944
51091C	1990	Aug	19	17	Simpson	0.2616	0.2238	0.0456	0.1441	0.3035
					Shannon	1.6946	1.8393	0.1521	1.5736	2.1049
					S-W Evenness	0.5755	0.5417	0.0463	0.4608	0.6227
					Sp. Richness	2.2513	3.1766	0.3926	2.4911	3.8621
51091C	1991	May	16	18	Simpeon	0.2181	0.1575	0.1025	-0.0208	0.3358
					Shannon	1.8647	2.0759	0.2739	1.5992	2.5525
					S-W Evenness	0.6725	0.7037	0.1012	0.5277	0.8797
					Sp. Richness	2.0453	2.4152	0.2268	2.0206	2.8098
51091	1989	Sep	26	9	Simpson	0.1558	0.0945	0.0491	0.0032	0.1857
					Shannon	2.0244	2.3002	0.1766	1.9717	2.6287
					S-W Evenness	0.6213	0.6290	0.0635	0.5110	0.7471
					Sp. Richness	2.7968	3.8552	0.3884	3.1327	4.5776
51091	1990	Jul	17	17	Simpson	0.8966	0.9112	0.0563	0.8129	1.0095
					Shannon	0.2729	0.2499	0.1216	0.0376	0.4623
					S-W Evenness	0.0963	0.0764	0.0416	0.0038	0.1491
					Sp. Richness	1.5376	2.0575	0.3226	1.4943	2.6207
51091	1990	Aug	24	18	Simpson	0.4251	0.3230	0.2120	-0.0458	0.6918
					Shannon	1.2387	1.5237	0.3873	0.8498	2.1975
					S-W Evenness	0.3898	0.4407	0.1196	0.2327	0.6488
					Sp. Richness	2.4017	3.1802	0.3062	2.6474	3.7129
51091	1991	May	17	18	Simpson	0.9092	1.0194	0.1608	0.7395	1.2992
					Shannon	0.2553	0.0490	0.3336	-0.5314	0.6295
					S-W Evenness	0.0901	0.0094	0.1178	-0.1955	0.2143
					Sp. Richness	1.4583	1.7120	0.2771	1.2299	2.1942

Table D-52 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Cook Inlet/Kenai Peninsula coarse textured site pair 62802C-50226.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-knife Index	Standard Error	Lower Limit	Upper Limit
62802C	1990	Jul	33	18	Simpson	0.1834	0.1696	0.0372	0.1049	0.2343
					Shannon	2.2426	2.3468	0.1842	2.0264	2.6673
					S-W Evenness	0.6414	0.6278	0.0391	0.5598	0.6958
					sp. Richness	3.8058	4.6928	0.5104	3.8047	5.5808
62802C	1990	Aug	33	18	Simpson	0.3023	0.2812	0.0993	0.1085	0.4540
					Shannon	1.8764	2.0389	0.3078	1.5034	2.5745
					S-W Evenness	0.5366	0.5334	0.0772	0.3992	0.6677
					Sp. Richness	3.7234	4.9315	0.5479	3.9781	5.8849
62802C	1991	May	24	18	Simpson	0.1716	0.0922	0.0248	0.0490	0.1353
					Shannon	2.0236	2.3065	0.1048	2.1242	2.4888
					S-W Evenness	0.6368	0.6596	0.0375	0.5942	0.7249
					sp. Richness	2.6104	3.4511	0.3662	2.8140	4.0883
50226	1989	Sep	16	5	Simpson	0.2675	0.0317	0.0608	-0.0980	0.1613
					Shannon	1.6488	2.4019	0.2241	1.9242	2.8796
					S-W Evenness	0.5947	0.7604	0.0938	0.5604	0.9604
					sp. Richness	1.8196	2.6453	0.3982	1.7963	3.4943
50226	1990	Jul	33	18	Simpson	0.1544	0.1073	0.0582	0.0061	0.2085
					Shannon	2.2320	2.5023	0.2282	2.1053	2.8993
					S-W Evenness	0.6384	0.6672	0.0597	0.5633	0.7710
					sp. Richness	3.5960	4.5036	0.4711	3.6838	5.3233
50226	1990	Aug	27	17	Simpson	0.1885	0.1695	0.0260	0.1242	0.2149
					Shannon	1.9869	2.0716	0.0965	1.9031	2.2401
					S-W Evenness	0.6028	0.5565	0.0443	0.4791	0.6338
					sp. Richness	3.0339	4.1237	0.6716	2.9511	5.2962
50226	1991	May	27	18	Simpson	0.2189	0.1323	0.0308	0.0788	0.1859
					Shannon	1.8688	2.0634	0.0868	1.9124	2.2145
					S-W Evenness	0.5670	0.6070	0.0201	0.5720	0.6419
					sp. Richness	2.8779	3.1613	0.3593	2.5361	3.7864

Table D-53. Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Kodiak/Alaska Peninsula coarse textured site pair 94935C-31288.

Site	Year	Visit	Number of Taxa	n	Test	AU Quadrats Index	Jack-Knife Index	Standard Error	Loner Limit	Upper Limit
94935C	1989	Sep	23	6	Simpson	0.1761	0.1181	0.0389	0.0398	0.1965
					Shannon	2.0309	2.1998	0.1348	1.9281	2.4715
					S-W Evenness	0.6477	0.6538	0.0439	0.5654	0.7422
					Sp. Richness	2.3907	2.9187	0.2710	2.3726	3.4649
94935C	1990	Jul	41	18	Simpson	0.1263	0.1075	0.0124	0.0859	0.1290
					Shannon	2.3424	2.4544	0.0899	2.2980	2.6109
					S-W Evenness	0.6308	0.5957	0.0409	0.5246	0.6668
					Sp. Richness	4.7411	6.3103	1.0932	4.4082	8.2124
94935C	1990	Sep	35	17	Simpson	0.1552	0.1361	0.0260	0.0906	0.1815
					Shannon	2.1992	2.3023	0.1080	2.1136	2.4909
					S-W Evenness	0.6186	0.5766	0.0303	0.5237	0.6296
					Sp. Richness	3.8399	5.3248	0.6795	4.1385	6.5111
94935C	1991	May	42	18	Simpson	0.1038	0.0670	0.0404	-0.0033	0.1372
					Shannon	2.5490	2.8146	0.3367	2.2288	3.4004
					S-W Evenness	0.6820	0.6933	0.0535	0.6003	0.7864
					Sp. Richness	4.7083	6.2272	0.9138	4.6371	7.8173
31288	1989	Sep	19	9	Simpson	0.4973	0.3184	0.3727	-0.3748	1.0116
					Shannon	1.0419	1.4434	0.6628	0.2106	2.6761
					S-W Evenness	0.3538	0.4424	0.2224	0.0287	0.8560
					Sp. Richness	2.2303	3.3105	0.3706	2.6212	3.9997
31288	1990	Jul	22	17	Simpson	0.4348	0.4119	0.1966	0.0685	0.7552
					Shannon	1.2877	1.3786	0.4167	0.6511	2.1062
					S-W Evenness	0.4166	0.3902	0.1416	0.1429	0.6375
					Sp. Richness	2.4371	3.3965	0.2889	2.8921	3.9009
31288	1990	Sep	29	18	Simpson	0.5272	0.4739	0.3072	-0.0607	1.0084
					Shannon	1.1067	1.2466	0.6291	0.1520	2.3412
					S-W Evenness	0.3287	0.3239	0.1801	0.0105	0.6373
					Sp. Richness	3.3104	5.0448	0.5993	4.0020	6.0877
31288	1991	May	13	17	Simpson	0.8413	0.8466	0.0448	0.7684	0.9249
					Shannon	0.4285	0.4304	0.1052	0.2468	0.6141
					S-W Evenness	0.1671	0.1534	0.0363	0.0900	0.2168
					Sp. Richness	1.3689	1.6861	0.2377	1.2711	2.1011

Table D-53 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Kodiak/Alaska Peninsula coarse textured site pair 13.1C-13.1.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
13.1C	1990	Jul	21	18	Simpson	0.3243	0.2704	0.0379	0.2045	0.3364
					Shannon	1.4311	1.5168	0.1366	1.2792	1.7545
					S-W Evenness	0.4700	0.4534	0.0478	0.3703	0.5366
					sp. Richness	2.7146	3.4581	0.4132	2.7391	4.1771
13.1C	1990	Sep	19	18	Simpson	0.3732	0.2518	0.2310	-0.1502	0.6537
					Shannon	1.4359	1.6943	0.4372	0.9336	2.4550
					S-W Evenness	0.4877	0.5159	0.1483	0.2576	0.7740
					sp. Richness	2.4004	3.1980	0.3421	2.6028	3.7933
13.1C	1991	May	16	18	Simpson	0.2427	0.0892	0.1255	-0.1291	0.3075
					Shannon	1.6273	2.0944	0.3784	1.4359	2.7529
					S-W Evenness	0.5869	0.6672	0.1074	0.4803	0.8541
					sp. Richness	2.1225	3.0352	0.4306	2.2860	3.7844
13.1	1990	Jul	19	18	Simpson	0.3334	0.2927	0.0756	0.1612	0.4242
					Shannon	1.4112	1.4781	0.1986	1.1325	1.8238
					S-W Evenness	0.4793	0.4432	0.0688	0.3235	0.5628
					Sp. Richness	2.1370	2.8942	0.2531	2.4537	3.3347
13.1	1990	Sep	24	18	Simpson	0.5649	0.6725	0.2174	0.2943	1.0508
					Shannon	0.9822	0.8041	0.4103	0.0901	1.5181
					S-W Evenness	0.3091	0.2168	0.1385	-0.0241	0.4577
					Sp. Richness	2.4531	3.1301	0.4276	2.3860	3.8741
13.1	1991	May	25	18	Simpson	0.5031	0.5262	0.2280	0.1295	0.9229
					Shannon	1.2211	1.2634	0.5218	0.3555	2.1713
					S-W Evenness	0.3793	0.3448	0.1566	0.0723	0.6172
					Sp. Richness	2.8015	3.8777	0.7374	2.5946	5.1609

Table D-54. Results of a jack-knife procedure testing for significant differences in Simpson dominance Shannon-Wiener diversity and evenness, and species richness Indices for Prince William Sound sheltered estuary site pair P15.1C-P15.1.

Site	Year	Visit	Number of Taxa	n	Test	AU Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
P15.1C	1990	Jun	24	9	Simpson	0.5391	0.5310	0.0971	0.3504	0.7115
					Shannon	1.2043	1.3064	0.2064	0.9225	1.6903
					S-W Evenness	0.3789	0.3468	0.0683	0.2198	0.4739
					sp. Richness	2.9860	4.4434	0.6687	3.1997	5.6872
P15.1C	1990	Aug	22	6	Simpson	0.3978	0.3662	0.1594	0.0450	0.6874
					Shannon	1.5270	1.6559	0.3777	0.8948	2.4171
					S-W Evenness	0.4940	0.5121	0.1173	0.2759	0.7484
					sp. Richness	2.3405	2.7085	0.2020	2.3015	3.1156
P15.1C	1991	Jun	23	7	Simpson	0.5806	0.6174	0.0899	0.4427	0.7920
					Shannon	1.1104	1.0645	0.2479	0.5828	1.5462
					S-W Evenness	0.3541	0.3039	0.0782	0.1519	0.4559
					sp. Richness	2.5891	3.3464	0.3116	2.7410	3.9517
P15.1	1990	Aug	19	11	Simpson	0.7056	0.7101	0.1052	0.5194	0.9008
					Shannon	0.7507	0.7810	0.2451	0.3368	1.2252
					S-W Evenness	0.2550	0.2280	0.0885	0.0677	0.3884
					sp. Richness	1.9631	2.7480	0.3876	2.0456	3.4503
P15.1	1991	Jun	21	9	Simpson	0.8098	0.8230	0.0873	0.6605	0.9854
					Shannon	0.5517	0.5576	0.2210	0.1467	0.9686
					S-W Evenness	0.1812	0.1535	0.0725	0.0185	0.2884
					sp. Richness	2.2181	3.2952	0.4171	2.5193	4.0710

Table D-54 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Prince William Sound sheltered estuary site pair 2397C-208/09.

Site	Year	Visit	Number of Taxa	<i>n</i>	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
2397C	1989	Sep	44	9	Simpson	0.5886	0.5998	0.0994	0.4149	0.7847
					Shannon	1.1167	1.1458	0.2483	0.6840	1.6077
					S-W Evenness	0.2951	0.2660	0.0607	0.1531	0.3790
					Sp. Richness	4.0562	5.7908	1.0044	3.9226	7.6589
2397C	1990	Jun	42	16	Simpson	0.3503	0.3364	0.1108	0.1422	0.5307
					Shannon	1.6625	1.7332	0.2774	1.2469	2.2194
					S-W Evenness	0.4448	0.4313	0.0705	0.3078	0.5549
					sp. Richness	4.4341	5.6329	0.4173	4.9014	6.3645
2397C	1990	Aug	59	16	Simpson	0.1494	0.1382	0.0216	0.1004	0.1760
					Shannon	2.4107	2.5163	0.1739	2.2115	2.8211
					S-W Evenness	0.5912	0.5713	0.0328	0.5138	0.6288
					sp. Richness	6.3031	8.2258	0.9625	6.5384	9.9131
2397C	1991	Jun	37	14	Simpson	0.1304	0.1105	0.0230	0.0698	0.1513
					Shannon	2.3841	2.5743	0.1576	2.2951	2.8535
					S-W Evenness	0.6602	0.6469	0.0403	0.5755	0.7183
					Sp. Richness	4.1104	5.5732	0.3987	4.8670	6.2794
208/09	1989	Sep	21	13	Simpson	0.2153	0.2031	0.0187	0.1698	0.2363
					Shannon	1.8682	1.9841	0.0933	1.8178	2.1504
					S-W Evenness	0.6136	0.6132	0.0427	0.5371	0.6894
					Sp. Richness	2.4864	2.9140	0.2037	2.5510	3.2771
208/09	1990	Jun	19	14	Simpson	0.2427	0.1956	0.0516	0.1042	0.2869
					Shannon	1.7373	1.8997	0.1754	1.5890	2.2104
					S-W Evenness	0.5900	0.5929	0.0518	0.5012	0.6847
					Sp. Richness	2.2013	2.7471	0.3924	2.0522	3.4420
208/09	1990	Aug	35	17	Simpson	0.3608	0.3563	0.0372	0.2913	0.4213
					Shannon	1.6407	1.6984	0.1017	1.5209	1.8760
					S-W Evenness	0.4615	0.4416	0.0308	0.3878	0.4954
					sp. Richness	3.9013	4.9785	0.3029	4.4495	5.5074
208/09	1991	Jun	26	17	Simpson	0.2384	0.2231	0.0415	0.1507	0.2956
					Shannon	1.8155	1.8892	0.1335	1.6562	2.1222
					S-W Evenness	0.5572	0.5479	0.0400	0.4780	0.6177
					sp. Richness	2.9619	3.5061	0.2459	3.0768	3.9354

Table D-55. Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon–Wiener diversity and evenness, and species richness indices for COOK Inlet/Kenai Peninsula sheltered estuary site pair C15.1C–C15.1.

Site	Year	Visit	Number of Taxa	<i>n</i>	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
C15.1C	1990	Jun	33	18	Simpson	0.3800	0.3691	0.1060	0.1847	0.5535
					Shannon	1.6233	1.6687	0.2704	1.1981	2.1392
					S–W Evenness	0.4643	0.4505	0.0745	0.3209	0.5801
					sp. Richness	3.4272	4.1308	0.2504	3.6952	4.5665
C15.1C	1990	Jul	23	14	Simpson	0.4103	0.4194	0.1136	0.2183	0.6205
					Shannon	1.4979	1.5187	0.2484	1.0787	1.9587
					S–W Evenness	0.4777	0.4537	0.0711	0.3278	0.5795
					sp. Richness	2.6189	3.1369	0.3341	2.5452	3.7286
C15.1C	1991	May	25	12	Simpson	0.3381	0.2156	0.1361	-0.0288	0.4600
					Shannon	1.5105	1.7671	0.1545	1.4896	2.0447
					S–W Evenness	0.4693	0.5270	0.0486	0.4398	0.6142
					sp. Richness	2.5386	2.9141	0.2399	2.4833	3.3450
C15.1	1990	Jun	36	17	Simpson	0.3252	0.3172	0.0473	0.2347	0.3997
					Shannon	1.7270	1.7830	0.1448	1.5301	2.0358
					S–W Evenness	0.4819	0.4540	0.0371	0.3892	0.5189
					sp. Richness	3.7017	4.8932	0.3951	4.2033	5.5830
C15.1	1990	Jul	26	17	Simpson	0.2175	0.2123	0.0281	0.1633	0.2614
					Shannon	1.8118	1.8327	0.0822	1.6891	1.9762
					S–W Evenness	0.5561	0.5371	0.0249	0.4937	0.5805
					Sp. Richness	2.6695	3.0634	0.2004	2.7135	3.4132
C15.1	1991	May	24	14	Simpson	0.2640	0.2492	0.0554	0.1510	0.3474
					Shannon	1.7766	1.8608	0.1351	1.6215	2.1001
					S–W Evenness	0.5590	0.5717	0.0408	0.4995	0.6439
					sp. Richness	2.3766	2.5656	0.1296	2.3361	2.7951

Table D-55 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon–Wiener diversity and evenness, and species richness indices for Cook Inlet/Kenai Peninsula sheltered estuary site pair 50981C–50221.

Site	Year	Visit	Number of Taxa	n	Test	AU Quadrats Index	Jack–Knife Index	Standard Error	Lower Limit	Upper Limit
50981C	1990	Jun	40	17	Simpson	0.1526	0.1402	0.0397	0.0709	0.2095
					Shannon	2.4400	2.5652	0.1673	2.2731	2.8573
					S–W Evenness	0.6614	0.6608	0.0439	0.5841	0.7375
					SP. Richness	4.5006	5.3614	0.3669	4.7209	6.0019
50981C	1990	Jul	35	14	Simpson	0.2634	0.2565	0.0711	0.1305	0.3824
					Shannon	1.9006	1.9550	0.1844	1.6285	2.2816
					S–W Evenness	0.5346	0.5130	0.0516	0.4216	0.6045
					sp. Richness	3.8269	4.7523	0.3065	4.2095	5.2950
50981C	1991	May	41	15	Simpson	0.1517	0.1434	0.0197	0.1087	0.1780
					Shannon	2.4166	2.5155	0.1309	2.2850	2.7460
					S–W Evenness	0.6507	0.6409	0.0330	0.5828	0.6991
					SP. Richness	4.3257	5.2286	0.2539	4.7815	5.6757
50221	1989	Sep	25	7	Simpson	0.2687	0.1387	0.1407	-0.1348	0.4121
					Shannon	1.6574	2.0536	0.4352	1.2081	2.8991
					S–W Evenness	0.5149	0.5594	0.1105	0.3446	0.7741
					sp. Richness	2.5028	3.7277	0.6141	2.5345	4.9209
50221	1990	Jun	23	11	Simpson	0.5130	0.5509	0.0806	0.4049	0.6969
					Shannon	1.1553	1.0459	0.2127	0.6604	1.4313
					S–W Evenness	0.3685	0.2893	0.0602	0.1801	0.3985
					SP. Richness	2.4251	3.2400	0.4215	2.4763	4.0037
50221	1990	Jul	24	10	Simpson	0.3117	0.2960	0.0413	0.2202	0.3717
					Shannon	1.6108	1.6709	0.1511	1.3938	1.9479
					S–W Evenness	0.5068	0.4579	0.0407	0.3832	0.5326
					sp. Richness	2.5568	3.5392	0.6153	2.4113	4.6671
50221	1991	May	33	14	Simpson	0.2867	0.2751	0.0834	0.1274	0.4227
					Shannon	1.8891	1.9489	0.2201	1.5591	2.3388
					S–W Evenness	0.5403	0.5353	0.0578	0.4330	0.6377
					sp. Richness	3.4651	3.9661	0.3174	3.4039	4.5282

Table D-55 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon–Wiener diversity and evenness, and species richness indices for COOK Inlet/Kenai Peninsula sheltered estuary site pair 50981C-50981.

Site	Year	Visit	Number of Taxa	<i>n</i>	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
50981C	1990	Jun	40	17	Simpson	0.1526	0.1402	0.0397	0.0709	0.2095
					Shannon	2.4400	2.5652	0.1673	2.2731	2.8573
					S-W Evenness	0.6614	0.6608	0.0439	0.5841	0.7375
					SP. Richness	4.5006	5.3614	0.3669	4.7209	6.0019
50981C	1990	Jul	35	14	Simpson	0.2634	0.2565	0.0711	0.1305	0.3824
					Shannon	1.9006	1.9550	0.1844	1.6285	2.2816
					S-W Evenness	0.5346	0.5130	0.0516	0.4216	0.6045
					SP. Richness	3.8269	4.7523	0.3065	4.2095	5.2950
50981C	1991	May	41	15	Simpson	0.1517	0.1434	0.0197	0.1087	0.1780
					Shannon	2.4166	2.5155	0.1309	2.2850	2.7460
					S-W Evenness	0.6507	0.6409	0.0330	0.5828	0.6991
					SP. Richness	4.3257	5.2286	0.2539	4.7815	5.6757
50981	1989	Sep	20	9	Simpson	0.4846	0.4761	0.0715	0.3431	0.6091
					Shannon	1.1765	1.2119	0.1566	0.9207	1.5031
					S-W Evenness	0.3927	0.3454	0.0424	0.2665	0.4243
					SP. Richness	1.9419	2.7587	0.4562	1.9103	3.6072
50981	1990	Jun	33	15	Simpson	0.6227	0.6346	0.1104	0.4402	0.8289
					Shannon	0.9130	0.9014	0.2462	0.4678	1.3350
					S-W Evenness	0.2611	0.2328	0.0714	0.1071	0.3585
					SP. Richness	3.4943	4.5992	0.5297	3.6664	5.5321
50981	1990	Jul	15	8	Simpson	0.5190	0.4551	0.2470	-0.0130	0.9232
					Shannon	1.1436	1.3076	0.5181	0.3258	2.2893
					S-W Evenness	0.4223	0.4411	0.1807	0.0987	0.7835
					Sp. Richness	1.6889	2.2086	0.2511	1.7328	2.6844
50981	1991	May	36	16	Simpson	0.2804	0.2708	0.0532	0.1775	0.3640
					Shannon	1.7980	1.8441	0.1675	1.5505	2.1377
					S-W Evenness	0.5017	0.4844	0.0419	0.4110	0.5577
					SP. Richness	3.7690	4.5733	0.4498	3.7848	5.3618

Table D-56. Results of a jack-knife procedure testing for significant differences in Simpson dominance Shannon-Wiener diversity and evenness, and species richness indices for Prince William Sound exposed rocky site pair 19C-19.

Site	Year	Visit	Number of Taxa	n	Tent	All Quadrats Index	Jack-Knife Index	Standard Error	Loner Limit	Upper Limit
19C	1990	Jun	34	16	Simpson	0.2230	0.1626	0.1263	-0.0588	0.3841
					Shannon	1.8972	2.1217	0.4292	1.3694	2.8741
					S-W Evenness	0.5380	0.5465	0.1034	0.3651	0.7278
					sp. Richness	3.3434	4.5631	0.6685	3.3914	5.7349
19C	1990	Aug	25	16	Simpson	0.2032	0.1852	0.0224	0.1460	0.2244
					Shannon	1.8217	1.9395	0.0993	1.7654	2.1137
					S-W Evenness	0.5660	0.5350	0.0583	0.4327	0.6372
					sp. Richness	2.8010	3.6976	0.3547	3.0757	4.3194
19C	1991	Jun	46	18	Simpson	0.1790	0.1211	0.0303	0.0683	0.1738
					Shannon	2.1280	2.3258	0.1247	2.1089	2.5427
					S-W Evenness	0.5558	0.5741	0.0270	0.5271	0.6210
					sp. Richness	4.7113	5.7714	0.4258	5.0304	6.5124
19	1990	Jun	42	18	Simpson	0.1436	0.0980	0.0545	0.0032	0.1928
					Shannon	2.4034	2.6747	0.2878	2.1739	3.1755
					S-W Evenness	0.6430	0.6555	0.0601	0.5509	0.7602
					sp. Richness	4.8594	6.5290	0.7961	5.1437	7.9142
19	1990	Aug	46	17	Simpson	0.1120	0.0775	0.0162	0.0492	0.1058
					Shannon	2.4986	2.7371	0.1122	2.5413	2.9330
					S-W Evenness	0.6526	0.6711	0.0309	0.6171	0.7251
					sp. Richness	5.1240	6.3831	0.6489	5.2502	7.5160
19	1991	Jun	44	15	Simpson	0.4399	0.5275	0.2590	0.0714	0.9836
					Shannon	1.4546	1.2015	0.7556	-0.1292	2.5321
					S-W Evenness	0.3844	0.2846	0.1955	-0.0597	0.6289
					sp. Richness	4.5973	5.9041	0.9104	4.3009	7.5074

Table **D-56 (continued)**. Results of a jack-knife procedure testing for significant differences in Simpson dominance, ~~Shannon-Wiener~~ diversity and evenness, and species richness indices for Prince William Sound exposed rocky site pair 1642C-833.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
1642C	1989	Sep	30	9	Simpson	0.2212	0.1736	0.0288	0.1199	0.2272
					Shannon	1.9447	2.1794	0.1172	1.9613	2.3975
					S-W Evenness	0.5718	0.5984	0.0271	0.5479	0.6489
					SP. Richness	3.3520	4.1671	0.4262	3.3743	4.9599
1642C	1990	Jun	31	17	Simpson	0.2679	0.2389	0.0587	0.1364	0.3414
					Shannon	1.5964	1.6385	0.2503	1.2016	2.0754
					S-W Evenness	0.4649	0.4287	0.0660	0.3134	0.5439
					SP. Richness	3.6104	4.7902	0.7812	3.4262	6.1543
1642C	1990	Aug	47	14	Simpson	0.1195	0.0738	0.0378	0.0069	0.1407
					Shannon	2.5416	2.8922	0.2958	2.3684	3.4160
					S-W Evenness	0.6601	0.6778	0.0329	0.6197	0.7360
					SP. Richness	5.3171	7.4135	1.1590	5.3608	9.4661
1642C	1991	Jun	48	18	Simpson	0.1949	0.1733	0.0474	0.0908	0.2557
					Shannon	1.9601	2.0419	0.1958	1.7012	2.3827
					S-W Evenness	0.5063	0.4934	0.0471	0.4114	0.5753
					sp. Richness	4.7769	5.9922	0.4855	5.1474	6.8369
833	1989	Sep	35	7	Simpson	0.2509	0.1827	0.0956	-0.0030	0.3684
					Shannon	1.8994	2.1352	0.2861	1.5793	2.6912
					S-W Evenness	0.5342	0.5293	0.0774	0.3790	0.6796
					SP. Richness	3.7602	5.3287	0.8884	3.6026	7.0549
833	1990	Jun	31	12	Simpson	0.5255	0.5635	0.1396	0.3128	0.8143
					Shannon	1.0325	0.9937	0.2350	0.5717	1.4157
					S-W Evenness	0.3007	0.2593	0.0669	0.1391	0.3794
					SP. Richness	2.8706	3.7813	0.4629	2.9498	4.6127
833	1990	Aug	58	11	Simpson	0.4021	0.4420	0.2439	0.0001	0.8839
					Shannon	1.7298	1.6473	0.7169	0.3482	2.9464
					S-W Evenness	0.4260	0.3809	0.1757	0.0626	0.6992
					sp. Richness	5.6141	6.7864	0.9516	5.0621	8.5107
833	1991	Jun	43	11	Simpson	0.2841	0.2101	0.0890	0.0487	0.3714
					Shannon	1.7603	1.9617	0.4185	1.2034	2.7199
					S-W Evenness	0.4680	0.4994	0.1008	0.3167	0.6820
					SP. Richness	4.0116	4.7789	0.4925	3.8865	5.6713

Table D-56 (continued). Results of a jack-knife procedure testing for significant differences in Simpson dominance, Shannon-Wiener diversity and evenness, and species richness indices for Prince William Sound exposed rocky site pair 4537C-979.

Site	Year	Visit	Number of Taxa	n	Test	All Quadrats Index	Jack-Knife Index	Standard Error	Lower Limit	Upper Limit
4537C	1990	Jun	70	15	Simpson	0.1182	0.0942	0.0232	0.0534	0.1351
					Shannon	2.6015	2.7978	0.1743	2.4908	3.1047
					S-W Evenness	0.6123	0.6210	0.0348	0.5598	0.6822
					Sp. Richness	7.1171	8.9312	0.7851	7.5486	10.3138
45376	1990	Aug	57	14	Simpson	0.2041	0.2011	0.0582	0.0980	0.3041
					Shannon	2.1513	2.1895	0.2579	1.7328	2.6462
					S-W Evenness	0.5321	0.5025	0.0634	0.3902	0.6148
					Sp. Richness	5.7253	7.3134	0.8670	5.7780	8.8488
4537C	1991	Jun	76	17	Simpson	0.0914	0.0781	0.0151	0.0517	0.1046
					Shannon	2.7893	2.9359	0.1715	2.6365	3.2354
					S-W Evenness	0.6441	0.6400	0.0284	0.5904	0.6896
					Sp. Richness	7.4807	9.3543	0.8749	7.8268	10.8818
979	1989	Sep	55	9	Simpson	0.0786	0.0318	0.0336	-0.0307	0.0942
					Shannon	2.8903	3.3565	0.3821	2.6458	4.0672
					S-W Evenness	0.7212	0.7283	0.0284	0.6755	0.7810
					Sp. Richness	6.5188	9.6687	2.5089	5.0021	14.3353
979	1990	Jun	68	18	Simpson	0.1246	0.0943	0.0235	0.0534	0.1351
					Shannon	2.5043	2.6917	0.1264	2.4719	2.9116
					S-W Evenness	0.5935	0.5938	0.0311	0.5397	0.6480
					Sp. Richness	7.6732	9.9302	1.1577	7.9157	11.9446
979	1990	Aug	56	17	Simpson	0.0697	0.0395	0.0140	0.0151	0.0639
					Shannon	3.0056	3.2919	0.1684	2.9979	3.5859
					S-W Evenness	0.7467	0.7700	0.0248	0.7266	0.8133
					Sp. Richness	6.8925	8.6322	0.6438	7.5082	9.7562
979	1991	Jun	73	18	Simpson	0.0755	0.0464	0.0363	-0.0168	0.1096
					Shannon	3.0646	3.3195	0.2593	2.8684	3.7706
					S-W Evenness	0.7143	0.7273	0.0409	0.6561	0.7986
					Sp. Richness	7.8911	10.0366	0.9419	8.3977	11.6766

Table D-57. Abundance and biomass data for organisms from PWS sheltered rocky oiled site quadrats sampled in 1989 (August). MVD=meter vertical drop; N=number of quadrats sampled; "Mean "=mean of quadrats; SE=standard error of the mean; "---"=insufficient or no data; and "Overall Means"=mean of site means.

Table D-57 (cont.) Means of abundance and biomass for organisms from PWS sheltered rocky oiled site quadrats sampled in 1989 (Aug).

Year	Sites	MVD	N	Abundance (no. m-2)		Biomass (g m-2)	
				Mean	SE	Mean	SE
<i>Lottiidae</i>							
	453	1	3	0.000	0.000	0.000	0.000
	601	1	3	36.667	20.276	2.500	1.265
	598	1	3	3.33	3.33	0.063	0.063
	1522	1	2	15.00	15.00	5.550	5.550
	OVERALL MEAN			13.75	8.29	2.028	1.310
	453	2	3	80.00	60.00	4.087	3.472
	601	2	3	56.67	8.82	3.527	1.100
	598	2	3	123.33	94.93	4.977	4.573
	1522	2	3	26.67	3.33	3.900	2.916
	OVERALL MEAN			71.67	20.39	4.122	0.308
	453	3	3	270.00	98.66	10.257	0.247
	601	3	3	46.67	3.33	2.457	1.467
	598	3	3	13.33	13.33	1.783	1.783
	1522	3	2	30.00	10.00	6.595	5.425
	OVERALL MEAN			90.00	60.39	5.273	1.973
<i>Loffia pelta</i>							
	453	1	3	0.00	0.00	0.000	0.000
	601	1	3	0.00	0.00	0.000	0.000
	598	1	3	0.00	0.00	0.000	0.000
	1522	1	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.000	0.000	0.000	0.000
	453	2	3	6.667	6.667	1.623	1.623
	601	2	3	0.000	0.000	0.000	0.000
	598	2	3	13.333	13.333	2.953	2.953
	1522	2	3	0.000	0.000	0.000	0.000
	OVERALL MEAN			5.000	3.191	1.144	0.714
	453	3	3	16.667	8.819	2.780	1.695
	601	3	3	10.000	5.774	1.733	1.528
	598	3	3	10.000	10.000	1.667	1.667
	1522	3	2	10.000	10.000	0.355	0.355
	OVERALL MEAN			11.667	1.667	1.634	0.497
<i>Tectura persona</i>							
	453	1	3	0.000	0.000	0.000	0.000
	601	1	3	26.667	13.333	1.907	1.005
	598	1	3	0.000	0.000	0.000	0.000
	1522	1	2	5.000	5.000	0.260	0.260
	OVERALL MEAN			7.917	6.360	0.542	0.459
	453	2	3	10.000	5.774	0.487	0.243
	601	2	3	40.000	11.547	1.923	0.673
	598	2	3	0.000	0.000	0.000	0.000
	1522	2	3	0.000	0.000	0.000	0.000
	OVERALL MEAN			12.500	9.465	0.602	0.455
	453	3	3	0.000	0.000	0.000	0.000
	601	3	3	0.000	0.000	0.000	0.000
	598	3	3	3.333	3.333	0.117	0.117
	1522	3	2	0.000	0.000	0.000	0.000
	OVERALL MEAN			0.833	0.833	0.029	0.029

Table **D-57** (cont.) **Means of** abundance and biomass for organisms **from PWS** sheltered **rocky oiled** site quadrats sampled in **1989** (Aug).

Year	Sites	M	M	N	Abundance (no.m-2)		Biomass(g.m-2)	
					Mean	SE	Mean	SE
<i>Tectura scutum</i>								
	453	1		3	~~0.000~~	~~0.000~~	0.000	0.000
	601	~~1~~		3	0.000	~~0.000~~	~~0.000~~	~~0.000~~
	598	1		3	~~0.00~~	0.00	0.000	0.000
	1522	1		2	10.00	10.00	5.290	5.290
	OVERALL MEAN				2.50	2.50	1.322	1.322
	453	2		3	0.00	0.00	0.000	0.000
	601	~~2~~		3	0.00	0.00	0.000	0.000
	598	2		3	~~0.00~~	0.00	~~0.000~~	~~0.000~~
	1522	2		3	6.67	6.67	3.223	3.223
	OVERALL MEAN				1.67	1.67	0.806	0.806
	453	3		3	63.33	43.72	4.693	2.354
	601	3		3	~~0.00~~	0.00	~~0.000~~	0.000
	598	3		3	0.00	0.00	0.000	0.000
	1522	3		2	10.00	~~10.00~~	6.010	6.010
	OVERALL MEAN				18.33	~~15.18~~	2.676	1.568
Balanomorpha								
	453	~~1~~		3	~~20.00~~	20.00	0.407	0.407
	601	~~1~~		3	4043.33	3465.40	196.483	170.317
	598	~~1~~		3	3240.00	3115.84	99.297	93.469
	1522	~~1~~		2	8835.00	4905.00	120.580	17.990
	OVERALL MEAN				4034.583	1820.996	104.192	40.396
	453	2		3	283.333	194.108	1.320	0.753
	601	2		3	1576.667	760.906	136.197	82.647
	598	2		3	10503.333	7577.812	303.340	133.663
	1522	2		3	3203.333	1351.016	53.753	7.657
	OVERALL MEAN				3891.667	2283.404	123.653	66.015
	453	3		3	573.333	518.534	3.663	2.489
	601	3		3	1400.000	406.325	186.398	155.455
	598	3		3	16110.000	5964.330	157.050	64.055
	1522	3		2	1475.000	1135.000	33.015	26.445
	OVERALL MEAN				4889.583	3745.712	95.032	45.082
<i>Chthamalus dalli</i>								
	453	~~1~~		3	~~0.000~~	~~0.000~~	0.000	0.000
	601	~~1~~		3	100.000	72.111	0.877	0.718
	598	~~1~~		3	123.333	123.333	0.623	0.623
	1522	1		2	225.000	115.000	4.880	3.570
	OVERALL MEAN				112.083	46.175	1.595	1.110
	453	2		3	146.667	117.945	0.610	0.430
	601	2		3	46.667	46.667	0.517	0.517
	598	2		3	266.667	209.550	1.487	1.264
	1522	2		3	2266.667	1573.259	19.353	13.422
	OVERALL MEAN				681.667	530.244	5.492	4.626
	453	3		3	476.667	476.667	2.573	2.573
	601	3		3	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~
	598	3		3	226.667	226.667	0.857	0.857
	1522	3		2	0.000	0.000	0.000	0.000
	OVERALL MEAN				175.833	113.622	0.858	0.607

Table D-57 (cont.) Means of abundance and biomass for organisms from PWS sheltered rocky oiled site quadrats sampled in 1989(Aug).

Year	Sites	MVD	N	Abundance (no. m-2)		Biomass (g m-2)	
				Mean	SE	Mean	SE
<i>Balanus glandula</i>							
	453	1	3	16.67	16.67	0.177	0.177
	601	1	3	46.67	29.06	1.570	1.133
	598	1	3	23.33	23.33	0.863	0.863
	1522	1	2	195.00	145.00	7.320	6.540
	OVERALL MEAN			70.42	42.02	2.483	1.637
	453	2	3	30.00	17.32	0.250	0.221
	601	2	3	93.33	88.38	0.873	0.766
	598	2	3	96.67	73.11	6.467	5.450
	1522	2	3	100.00	28.87	2.830	0.718
	OVERALL MEAN			80.00	16.72	2.605	1.400
	453	3	3	16.67	3.33	0.267	0.107
	601	3	3	6.67	6.67	0.313	0.313
	598	3	3	20.00	11.55	1.027	0.525
	1522	3	2	5.00	5.00	0.055	0.055
	OVERALL MEAN			12.08	3.69	0.415	0.211
<i>Semibalanus balanoides</i>							
	453	1	3	3.33	3.33	0.230	0.230
	601	1	3	3056.67	2685.64	189.890	166.919
	598	1	3	1203.33	1080.75	92.017	86.194
	1522	1	2	8415.00	5165.00	108.380	7.880
	OVERALL MEAN			3169.58	1857.83	97.629	38.886
	453	2	3	0.00	0.00	0.000	0.000
	601	2	3	1050.00	421.23	131.517	80.071
	598	2	3	3683.33	1683.02	254.550	97.837
	1522	2	3	836.67	424.43	31.570	18.285
	OVERALL MEAN			1392.50	796.52	104.409	57.361
	453	3	3	26.67	21.86	0.757	0.582
	601	3	3	1246.67	478.06	185.427	155.918
	598	3	3	1806.67	1234.51	27.897	9.035
	1522	3	2	1470.00	1130.00	32.960	26.390
	OVERALL MEAN			1137.50	387.75	61.760	41.824
<i>Lacuna spp.</i>							
	453	1	3	0.00	0.00	0.000	0.000
	601	1	3	0.00	0.00	0.000	0.000
	598	1	3	0.00	0.00	0.000	0.000
	1522	1	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	453	2	3	3.33	3.33	0.007	0.007
	601	2	3	0.00	0.00	0.000	0.000
	598	2	3	0.00	0.00	0.000	0.000
	1522	2	3	36.67	36.67	0.113	0.113
	OVERALL MEAN			10.00	8.92	0.030	0.028
	453	3	3	3.33	3.33	0.013	0.013
	601	3	3	10.00	10.00	0.047	0.047
	598	3	3	86.67	72.19	0.087	0.055
	1522	3	2	2060.00	2060.00	0.985	0.985
	OVERALL MEAN			540.00	507.02	0.283	0.235

Table D-57 (cont.) Means of abundance and biomass for organisms from PWS sheltered rocky oiled site quadrats sampled in 1989 (Aug).

Year	Sites	MVD	N	Abundance (no. m-2)		Biomass (g m-2)	
				Mean	SE	Mean	SE
<i>Lifforina spp.</i>							
	453	1	3	253.33	243.40	31.493	30.030
	601	1	3	323.33	168.95	22.070	12.236
	598	1	3	150.00	125.83	1.703	1.386
	1522	1	2	1045.00	995.00	17.865	17.145
	OVERALL MEAN			442.92	203.83	18.283	6.218
	453	2	3	376.67	52.39	21.390	7.506
	601	2	3	523.33	56.96	17.277	1.100
	598	2	3	753.33	242.65	8.247	1.828
	1522	2	3	1113.33	906.87	8.783	7.958
	OVERALL MEAN			691.67	160.51	13.924	3.236
	453	3	3	133.33	113.48	2.023	1.590
	601	3	3	1140.00	568.71	16.887	7.853
	598	3	3	173.33	83.33	1.343	0.969
	1522	3	2	2850.00	2850.00	7.725	7.725
	OVERALL MEAN			1074.17	636.04	6.995	3.594
<i>Littorina sitkana</i>							
	453	1	3	243.33	233.41	31.240	29.777
	601	1	3	240.00	120.00	19.000	10.054
	598	1	3	6.67	6.67	0.067	0.067
	1522	1	2	855.00	855.00	15.665	15.665
	OVERALL MEAN			336.25	181.57	16.493	6.418
	453	2	3	173.33	101.05	8.913	7.148
	601	2	3	190.00	40.00	9.947	3.239
	598	2	3	233.33	181.14	1.953	1.752
	1522	2	3	856.67	671.18	6.520	5.853
	OVERALL MEAN			363.33	164.93	6.833	1.778
	453	3	3	23.33	23.33	0.260	0.260
	601	3	3	306.67	247.75	3.493	2.484
	598	3	3	123.33	58.97	0.850	0.575
	1522	3	2	2590.00	2590.00	6.495	6.495
	OVERALL MEAN			760.83	612.54	2.775	1.426
<i>Littorina scutulata</i>							
	453	1	3	10.00	10.00	0.253	0.253
	601	1	3	83.33	64.38	3.070	2.517
	598	1	3	143.33	119.21	1.637	1.320
	1522	1	2	190.00	140.00	2.200	1.480
	OVERALL MEAN			106.67	38.92	1.790	0.591
	453	2	3	203.33	54.57	12.477	7.774
	601	2	3	333.33	86.67	7.330	2.764
	598	2	3	520.00	121.66	6.293	0.271
	1522	2	3	256.67	236.95	2.263	2.105
	OVERALL MEAN			328.33	69.24	7.091	2.102
	453	3	3	110.00	90.19	1.763	1.330
	601	3	3	833.33	418.98	13.393	7.011
	598	3	3	50.00	26.46	0.493	0.402
	1522	3	2	260.00	260.00	1.230	1.230
	OVERALL MEAN			313.33	178.87	4.220	3.069

Table **D-57** (cont.) Means of abundance and biomass for organisms from PWS Sheltered rocky oiled site quadrats **sampl**ed in 1989 (Aug).

Year	Sites	MVD	N	Abundance (no.m-2)		Biomass(g m-2)	
				Mean	SE	Mean	SE
<i>Mytilus edulis</i>							
	453	1	3	6.67	6.67	0.027	0.027
	601	1	3	190.00	175.21	24.043	21.625
	598	1	3	16.67	16.67	2.043	2.043
	1522	1	2	30.00	10.00	13.135	12.665
	OVERALL MEAN			60.83	43.32	9.812	5.550
	453	2	3	320.00	178.98	4.917	2.631
	601	2	3	756.67	386.84	539.310	325.057
	598	2	3	2513.33	2468.47	1657.800	1656.750
	1522	2	3	8640.00	7058.41	442.407	429.198
	OVERALL MEAN			3057.50	1920.25	661.108	351.976
	453	3	3	573.33	325.18	13.963	7.028
	601	3	3	1590.00	799.77	883.880	708.711
	598	3	3	4570.00	3348.84	60.073	56.164
	1522	3	2	7745.00	7715.00	39.320	39.000
	OVERALL MEAN			3619.58	1615.58	249.084	211.817
<i>Turtonia minuta</i>							
	453	1	3	0.00	0.00	0.000	0.000
	601	1	3	6.67	6.67	0.000	0.000
	598	1	3	0.00	0.00	0.000	0.000
	1522	1	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			1.67	1.67	0.000	0.000
	453	2	3	13.33	8.82	0.013	0.007
	601	2	3	3.33	3.33	0.000	0.000
	598	2	3	0.00	0.00	0.000	0.000
	1522	2	3	826.67	594.46	0.692	0.611
	OVERALL MEAN			210.83	205.30	0.176	0.172
	453	3	3	1336.67	1271.93	0.337	0.322
	601	3	3	12355.00	12355.00	4.338	4.338
	598	3	3	250.00	235.16	0.187	0.187
	1522	3	2	113.33	108.37	0.083	0.083
	OVERALL MEAN			3513.75	2959.76	1.236	1.035
<i>Pagurus spp</i>							
	453	1	3	83.33	83.33	0.310	0.310
	601	1	3	0.00	0.00	0.000	0.000
	598	1	3	0.00	0.00	0.000	0.000
	1522	1	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			20.83	20.83	0.078	0.078
	453	2	3	23.33	14.53	0.443	0.231
	601	2	3	40.00	40.00	1.883	1.883
	598	2	3	10.00	10.00	0.157	0.157
	1522	2	3	16.67	8.82	0.343	0.226
	OVERALL MEAN			22.50	6.44	0.707	0.397
	453	3	3	230.00	87.18	21.823	14.087
	601	3	3	20.00	5.77	0.707	0.090
	598	3	3	33.33	18.56	21.823	18.104
	1522	3	2	30.00	30.00	4.235	4.235
	OVERALL MEAN			78.33	50.64	12.147	5.633

Table D-57 (cont.) Means of abundance and biomass for organisms from PWS sheltered rocky oiled site quadrats sampled in 1989 (Aug).

Year	Sites	MVD	N	Abundance (no. m-2)		Biomass (g m-2)	
				Mean	SE	Mean	SE
<i>Nucella spp.</i>							
	453	1	3	0.00	0.00	0.000	0.000
	601	1	3	0.00	0.00	0.000	0.000
	598	1	3	0.00	0.00	0.000	0.000
	1522	1	2	25.00	25.00	53.885	53.885
	OVERALL MEAN			6.25	6.25	13.471	13.471
	453	2	3	6.67	3.33	1.390	0.917
	601	2	3	10.00	10.00	7.667	7.667
	598	2	3	0.00	0.00	0.000	0.000
	1522	2	3	30.00	25.17	60.853	50.976
	OVERALL MEAN			11.67	6.46	17.477	14.554
	453	3	3	30.00	30.00	0.870	0.870
	601	3	3	3.33	3.33	4.967	4.967
	598	3	3	20.00	15.28	45.517	23.174
	1522	3	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			13.33	7.07	12.838	10.946
<i>Nucella lima</i>							
	453	1	3	0.00	0.00	0.000	0.000
	601	1	3	0.00	0.00	0.000	0.000
	598	1	3	0.00	0.00	0.000	0.000
	1522	1	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	453	2	3	6.67	3.33	1.390	0.917
	601	2	3	0.00	0.00	0.000	0.000
	598	2	3	0.00	0.00	0.000	0.000
	1522	2	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			1.67	1.67	0.347	0.347
	453	3	3	0.00	0.00	0.000	0.000
	601	3	3	3.33	3.33	4.967	4.967
	598	3	3	16.67	16.67	20.237	20.237
	1522	3	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			5.00	3.97	6.301	4.791
<i>Nucella lamellosa</i>							
	453	1	3	0.00	0.00	0.000	0.000
	601	1	3	0.00	0.00	0.000	0.000
	598	1	3	0.00	0.00	0.000	0.000
	1522	1	2	25.00	25.00	53.885	53.885
	OVERALL MEAN			6.25	6.25	13.471	13.471
	453	2	3	0.00	0.00	0.000	0.000
	601	2	3	10.00	10.00	7.667	7.667
	598	2	3	0.00	0.00	0.000	0.000
	1522	2	3	30.00	25.17	60.853	50.976
	OVERALL MEAN			10.00	7.07	17.130	14.686
	453	3	3	30.00	30.00	0.870	0.870
	601	3	3	0.00	0.00	0.000	0.000
	598	3	3	3.33	3.33	25.280	25.280
	1522	3	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			8.33	7.27	6.538	6.251

Table **D-57** (cant.) Means of abundance and biomass for organisms from PWS sheltered rocky oiled site quadrats sampled in 1989 (Aug).

Year	Sites	MVD	N	Abundance (no. m-2)		Biomass (g m-2)	
				Mean	SE	Mean	SE
Amphipoda							
	453	1	3	0.00	0.00	0.000	0.000
	601	1	3	0.00	0.00	0.000	0.000
	598	1	3	0.00	0.00	0.000	0.000
	1522	1	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	453	2	3	50.00	36.06	0.227	0.136
	601	2	3	0.00	0.00	0.000	0.000
	598	2	3	0.00	0.00	0.000	0.000
	1522	2	3	36.67	31.80	0.090	0.045
	OVERALL MEAN			21.67	12.80	0.079	0.054
	453	3	3	440.00	282.90	1.727	1.086
	601	3	3	230.00	210.32	0.747	0.747
	598	3	3	133.33	73.56	0.273	0.050
	1522	3	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			200.83	92.62	0.687	0.379
Isopoda							
	453	1	3	0.00	0.00	0.000	0.000
	601	1	3	0.00	0.00	0.000	0.000
	598	1	3	0.00	0.00	0.000	0.000
	1522	1	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	453	2	3	3.33	3.33	0.037	0.037
	601	2	3	23.33	23.33	0.073	0.073
	598	2	3	23.33	18.56	0.050	0.026
	1522	2	3	140.00	115.90	1.067	0.534
	OVERALL MEAN			47.50	31.19	0.307	0.253
	453	3	3	170.00	132.04	0.127	0.064
	601	3	3	143.33	98.38	1.443	0.856
	598	3	3	50.00	20.82	0.427	0.258
	1522	3	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			90.83	39.73	0.499	0.327
Errant polychaetes							
	453	1	3	0.00	0.00	0.000	0.000
	601	1	3	0.00	0.00	0.000	0.000
	598	1	3	0.00	0.00	0.000	0.000
	1522	1	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	453	2	3	0.00	0.00	0.000	0.000
	601	2	3	0.00	0.00	0.000	0.000
	598	2	3	13.33	13.33	0.013	0.013
	1522	2	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			3.33	3.33	0.003	0.003
	453	3	3	1866.67	1285.07	0.673	0.432
	601	3	3	6.67	6.67	0.340	0.340
	598	3	3	210.00	100.17	0.047	0.033
	1522	3	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			520.83	451.25	0.265	0.156

Table D-57(cont.) Means of abundance and biomass for organisms from PWS sheltered rocky oiled site quadrats sampled in 1989 (Aug).

Year	Sites	MVD	N	Abundance (no.m-2)		Biomass (g m-2)	
				Mean	SE	Mean	SE
Sedentary polychaetes							
	453	1	3	0.00	0.00	0.000	0.000
	601	1	3	0.00	0.00	0.000	0.000
	598	1	3	0.00	0.00	0.000	0.000
	1522	1	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	453	2	3	0.00	0.00	0.000	0.000
	601	2	3	0.00	0.00	0.000	0.000
	598	2	3	0.00	0.00	0.000	0.000
	1522	2	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	453	3	3	153.33	153.33	0.027	0.027
	601	3	3	280.00	255.41	0.320	0.244
	598	3	3	633.33	574.38	0.083	0.042
	1522	3	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			266.67	134.96	0.108	0.073
Oligochaeta							
	453	1	3	0.00	0.00	0.000	0.000
	601	1	3	0.00	0.00	0.000	0.000
	598	1	2	0.00	0.00	0.000	0.000
	1522	1	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.000	0.000	0.000	0.000
	453	2	3	0.00	0.00	0.000	0.000
	601	2	3	210.00	210.00	0.093	0.093
	598	2	3	6.67	3.33	0.000	0.000
	1522	2	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			54.17	51.97	0.023	0.023
	453	3	3	1236.67	892.61	2.320	1.645
	601	3	3	0.00	0.00	0.000	0.000
	598	3	3	656.67	588.06	0.000	0.000
	1522	3	2	0.00	0.00	0.000	0.000
	OVERALL MEAN			473.33	291.82	0.580	0.580
Total organisms							
	453	1	3	556.67	546.70	75.513	74.043
	601	1	3	4650.00	3836.15	245.457	203.641
	598	1	3	3413.33	3089.21	103.107	95.107
	1522	1	1	9955.00	3945.00	211.015	36.965
	OVERALL MEAN			4643.75	1966.97	158.773	41.104
	453	2	3	1230.00	420.28	34.037	13.164
	601	2	3	3370.00	1584.65	706.240	413.256
	598	2	3	13983.33	10413.60	1974.613	1777.869
	1522	2	3	14086.67	7505.24	578.888	424.939
	OVERALL MEAN			8167.50	3415.72	823.445	410.477
	453	3	3	7003.33	4426.78	118.467	69.027
	601	3	3	8860.00	2477.06	1138.042	849.278
	598	3	3	28163.33	1705.57	407.870	82.541
	1522	3	2	27085.00	26615.00	106.807	58.277
	OVERALL MEAN			17777.91	5701.61	442.796	241.982

Table D-58. Abundance and biomass data for organisms from CIK sheltered rocky quadrats sampled in 1989. MVD=meter vertical drop; Nc and No=number of quadrats for control and oiled sites, respectively; C=control site mean O=oiled site mean; SE=standard error; D=direction of difference between means with respect to the control site; "---"=insufficient or not data

between means with respect to the control site; "----"=insufficient or not data

Site Pair	MVD	Nc	No	Abundance no. m-2				D	PValue	Biomass g m-2					D
				C	SE	O	SE			C	SE	O	SE		
Lottiidae															
62762C/50983	1	3	3	23.33	14.53	20.00	20.00	+	0.8993	4.610	3.110	1.623	1.623	+	
62762C/50983	2	3	3	180.00	92.92	16.67	8.82	+	0.1550	8.077	5.359	0.977	0.662	+	
62762C/50983	3	3	2	206.67	191.69	345.00	295.00	-	0.1550	12.087	8.597	14.360	12.490	-	
Lottia pelta															
62762C/50983	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.00	0.00	0.00	0.00	=	
62762C/50983	2	3	3	6.67	6.67	0.00	0.00	+	0.3739	1.093	1.093	0.000	0.000	+	
62762C/50983	3	3	2	16.67	16.67	55.00	45.00	-	0.3739	1.477	1.477	7.260	6.350	-	
Tectura persona															
62762C/50983	1	3	3	0.00	0.00	16.67	16.67	-	0.3739	0.000	0.000	1.540	1.540	-	
62762C/50983	2	3	3	6.67	6.67	6.67	6.67	=	1.0000	1.570	1.570	0.443	0.443	+	
62762C/50983	3	3	2	0.00	0.00	0.00	0.00	=	1.0000	0.00	0.00	0.00	0.00	=	
Tectura scutum															
62762C/50983	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.00	0.00	0.00	0.00	=	
62762C/50983	2	3	3	13.33	8.82	3.33	3.33	+	0.3486	3.477	3.057	0.303	0.303	+	
62762C/50983	3	3	2	26.67	21.86	5.00	5.00	+	0.3486	8.077	4.825	0.440	0.440	+	
Balanomorpha															
62762C/50983	1	3	3	17710.00	11971.26	2910.00	1370.92	+	0.2867	517.203	173.410	255.217	103.055	+	
62762C/50983	2	3	3	9813.00	5359.95	20100.00	8841.52		0.3761	993.063	498.974	872.103	286.816	+	
62762C/50983	3	3	2	5533.33	3930.63	6235.00	5795.00		0.3761	2519.404	2374.099	286.690	225.520	+	

Table D-58 (cont.) Means of abundance and biomass for organisms from CIK sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Chthamalus dalli</i>															
62762C/50983	1	3	3	17710.00	11971.26	2910.00	1370.92	+	0.2867	517.203	173.410	255.217	103.055	+	0.2638
62762C/50983	2	3	3	9813.33	5359.95	20100.00	8841.52	-	0.3761	993.063	498.974	872.103	286.816	+	0.8438
62762C/50983	3	3	2	5533.33	3930.63	6235.00	5795.00	-	0.3761	2519.404	2374.099	286.690	225.520	+	0.8438
<i>Balanus glandula</i>															
62762C/50983	1	3	3	1856.67	854.91	3390.00	581.03	-	0.2121	212.707	89.699	311.640	102.976	-	0.5089
62762C/50983	2	3	3	3390.00	581.03	1856.67	854.91	+	0.2121	311.640	102.976	212.707	89.699	+	0.5089
62762C/50983	3	3	2	30.00	30.00	1025.00	795.00	-	0.2121	0.787	0.787	166.425	125.865	-	0.5089
<i>Semibalanus balanoides</i>															
62762C/50983	1	3	3	10830.00	9796.69	503.33	112.60	+	0.3513	170.890	160.953	37.557	9.428	+	0.4547
62762C/50983	2	3	3	1376.67	1068.28	4500.00	1671.21	-	0.1904	28.193	24.073	246.403	101.444	-	0.1045
62762C/50983	3	3	2	4176.67	4176.67	780.00	590.00	+	0.1904	96.260	96.260	79.780	59.370	+	0.1045
<i>Lacuna spp.</i>															
62762C/50983	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
62762C/50983	2	3	3	3.33	3.33	<0	<0	+	0.3739	<0	0.000	<0	<0	=	1.0000
62762C/50983	3	3	2	63.33	48.42	145.00	145.00	-	0.5597	0.220	0.153	0.355	0.355	-	0.7099
<i>Littorina spp.</i>															
62762C/50983	1	3	3	956.67	413.37	410.00	365.56	+	0.3779	16.647	9.628	28.317	27.141	-	0.7060
62762C/50983	2	3	3	413.33	314.24	3263.33	551.19	-	0.0109	7.037	5.717	87.753	21.699	-	0.0228
62762C/50983	3	3	2	93.33	93.33	995.00	965.00	-	0.0109	1.083	1.083	24.785	24.365	-	0.0228

Table D-58 (cont.) Means of abundance and biomass for organisms from CIK sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Littorina sitkana</i>															
62762C/50983	1	3	3	743.33	296.33	380.00	350.19	+	0.4727	13.263	7.256	27.713	26.855	-	0.6309
62762C/50983	2	3	3	406.67	312.05	1343.33	512.81	-	0.1937	6.927	5.658	50.130	16.706	-	0.0705
62762C/50983	3	3	2	83.33	83.33	240.00	230.00	-	0.1937	0.943	0.943	3.370	3.270	-	0.0705
<i>Littorina scutulata</i>															
62762C/50983	1	3	3	213.33	118.93	30.00	17.32	+	0.2018	3.383	2.374	0.603	0.338	+	0.3107
62762C/50983	2	3	3	6.67	3.33	1920.00	40.42	-	0.0000	0.110	0.064	37.623	5.097	-	0.0018
62762C/50983	3	3	2	10.00	10.00	755.00	735.00	-	0.0000	0.140	0.140	21.415	21.095	-	0.0018
<i>Mytilus edulis</i>															
62762C/50983	1	3	3	770.00	670.22	336.67	336.67	+	0.5944	23.750	22.703	89.040	89.040	-	0.5166
62762C/50983	2	3	3	6253.33	4259.43	2343.33	780.29	+	0.4176	146.930	119.549	643.750	338.976	-	0.2391
62762C/50983	3	3	2	3026.67	2793.10	3860.00	1490.00	-	0.4176	61.917	61.407	986.685	172.585	-	0.2391
<i>Turtonia minuta</i>															
62762C/50983	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
62762C/50983	2	3	3	3776.67	3776.67	6.67	6.67	+	0.3747	2.347	2.347	0.013	0.013	+	0.3764
62762C/50983	3	3	2	26.67	21.86	5.00	5.00	+	0.3747	0.023	0.023	0.000	0.000	+	0.3764
<i>Pagurus spp.</i>															
62762C/50983	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
62762C/50983	2	3	3	26.67	26.67	73.33	49.10	-	0.4506	1.293	1.293	6.983	6.215	-	0.4208
62762C/50983	3	3	2	13.33	13.33	85.00	35.00	0	0.4506	3.063	3.063	3.070	0.430	0	0.4208

Table D-58 (cont.) Means of abundance and biomass for organisms from CIK sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Nucella spp.															
62762C/50983	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
62762C/50983	2	3	3	3.33	3.33	13.33	13.33	-	0.5072	3.263	3.263	15.917	15.917	-	0.4796
62762C/50983	3	3	2	10.00	5.77	5.00	5.00	+	0.5908	22.387	16.240	4.930	4.930	+	0.4722
Nucella lima															
62762C/50983	1	3	3	3.33	3.33	13.33	13.33	-	0.5072	3.263	3.263	15.917	15.917	-	0.4796
62762C/50983	2	3	3	3.33	3.33	13.33	13.33	-	0.5072	3.263	3.263	15.917	15.917	-	0.4796
62762C/50983	3	3	2	3.33	3.33	5.00	5.00	-	0.5072	4.400	4.400	4.930	4.930	-	0.4796
Nucella lamellosa															
62762C/50983	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
62762C/50983	2	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
62762C/50983	3	3	2	6.67	6.67	0.00	0.00	+	1.0000	17.987	17.987	0.000	0.000	+	1.0000
Amphipoda															
62762C/50983	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
62762C/50983	2	3	3	130.00	80.83	106.67	87.43	+	0.8542	0.460	0.267	0.680	0.555	-	0.7390
62762C/50983	3	3	2	530.00	294.85	330.00	130.00	+	0.8542	1.113	0.549	1.795	0.745	-	0.7390
Isopoda															
62762C/50983	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
62762C/50983	2	3	3	103.33	79.65	56.67	26.03	+	0.6073	0.133	0.133	0.100	0.090	+	0.8461
62762C/50983	3	3	2	436.67	302.01	1035.00	715.00	-	0.6073	4.067	3.757	5.585	2.775	-	0.8461

Table D-58 (cont.) Means of abundance and biomass for organisms from CIK sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Errant polychaetes															
62762C/50983	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
62762C/50983	2	3	3	56.67	29.63	263.33	243.61		0.4471	0.047	0.037	0.127	0.107		0.5199
62762C/50983	3	3	2	230.00	200.75	115.00	75.00	+	0.6938	0.153	0.125	0.045	0.045	+	0.5566
Sedentary polychaetes															
62762C/50983	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
62762C/50983	2	3	3	1796.67	1465.27	116.67	111.70	+	0.3167	0.043	0.034	0.000	0.000	+	0.2694
62762C/50983	3	3	2	976.67	971.67	280.00	280.00	+	0.3167	0.153	0.153	0.015	0.015	+	0.2694
Oligochaeta															
62762C/50983	1	3	3	80.00	70.00	150.00	150.00	0	0.6941	0.020	0.020	0.123	0.123	0	0.547
62762C/50983	2	3	3	3336.67	2234.62	236.67	57.83	+	0.2378	0.343	0.186	0.130	0.075	+	0.075
62762C/50983	3	3	2	3400.00	3044.93	105.00	5.00	+	0.2378	1.400	1.390	0.035	0.035	+	0.3479
Total organisms															
62762C/50983	1	3	3	19933.33	12881.29	4000.00	2360.36	+	0.2906	562.430	199.188	374.687	220.262	+	0.5616
62762C/50983	2	3	3	30273.33	18932.24	27163.33	9855.41	+	0.8912	1174.443	600.498	1629.517	256.444	-	0.5242
62762C/50983	3	3	2	15250.00	9540.19	14005.00	215.00	+	0.8912	2668.597	2347.354	1329.420	433.780	+	0.5242

Table D-59. Abundance and biomass data for organisms from KAP sheltered rocky quadrats sampled in 1989. MVD=meter vertical drop; Nc and No=number of quadrats for control and oiled sites, respectively; C=control site mean; O=oiled site mean; SE=standard error; D=direction of difference between means with respect to the control site; "---"=insufficient or no data.

D=direction of difference between means with respect to the control site, ---insufficient or no data.										Biomass					
Site Pair	MVD	Nc	No	Abundance no. m-2						g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Lottiidae															
99826C/33141	1	3	1	36.67	44.7	10.00	—	+	—	8.070	8.070	1.230	—	+	—
31248	1		3	—	—	40.00	26.46	—	—	—	—	4.547	3.004	—	—
30196	1		3	—	—	0.00	0.00	—	—	—	—	0.000	0.000	—	—
OVERALL MEAN				—	—	16.67	12.02			—	—	1.926	1.358		
99826C/33141	2	3	1	146.67	14.79	1060.00	—	-	—	16.810	16.357	16.870	—	-	—
31248	2		3	—	—	193.33	54.87	—	—	—	—	11.390	3.545	—	—
30196	2		3	—	—	10.00	10.00	—	—	—	—	0.343	0.343	—	—
OVERALL MEAN				—	—	421.11	323.80			—	—	9.534	4.860		
99826C/33141	3	1	1	50.00	—	0.00	—	+	—	6.620	—	0.000	—	+	—
31248	3	-	3	—	—	833.33	231.40	—	—	—	—	22.373	3.159	—	—
30196	3	-	3	—	—	86.67	86.67	—	—	—	—	0.347	0.347	—	—
OVERALL MEAN				—	—	306.67	264.52			—	—	7.573	7.401		
Lottia pelta															
99826C/33141	1	3	1	3.33	3.33	0.00	—	+	—	1.680	5.80	0.000	—	+	—
31248	1	-	3	—	—	0.00	0.00	—	—	—	—	0.000	0.000	—	—
30196	1	-	3	—	—	0.00	0.00	—	—	—	—	0.000	0.000	—	—
OVERALL MEAN				—	—	0.00	0.00			—	—	0.000	0.000		
99826C/33141	2	3	1	43.33	43.33	40.00	—	+	—	10.993	10.993	5.150	—	+	—
31248	2		3	—	—	13.33	13.33	—	—	—	—	3.397	3.397	—	—
30196	2		3	—	—	0.00	0.00	—	—	—	—	0.000	0.000	—	—
OVERALL MEAN				—	—	17.78	11.76			—	—	2.849	1.512		
99826C/33141	3	1	1	0.00	—	0.00	—	=	—	0.000	—	0.000	—	=	—
31248	3	-	3	—	—	20.00	5.77	—	—	—	—	4.340	1.633	—	—
30196	3	-	3	—	—	0.00	0.00	—	—	—	—	0.000	0.000	—	—
OVERALL MEAN				—	—	6.67	6.67			—	—	1.447	1.447		

Table D-59 (cont.) Means of abundance and biomass for organisms from KAP sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Tectura persona</i>															
99826C/3314	1	3	1	30.00	30.00	10.00	---	+	---	6.083	6.083	1.230	---	+	---
31248	1	-	3	---	---	30.00	17.32	---	---	---	---	3.200	1.787	---	---
30196	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	13.33	8.82			---	---	1.477	0.932		
99826C/3314	2	3	1	3.33	3.33	0.00	---	+	---	0.200	0.200	0.000	---	+	---
31248	2	-	3	---	---	6.67	6.67	---	---	---	---	0.660	0.660	---	---
30196	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	2.22	2.22			---	---	0.220	0.220		
99826C/3314	3	1	1	0.00	---	0.00	---	=	---	0.000	---	0.000	---	=	---
31248	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
<i>Tectura scutum</i>															
99826C/3314	1	3	1	0.00	0.00	0.00	---	=	---	0.000	0.000	0.000	---	=	---
31248	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
99826C/3314	2	3	1	0.00	0.00	0.00	---	=	---	0.000	0.000	0.000	---	=	---
31248	2	-	3	---	---	6.67	6.67	---	---	---	---	0.357	0.357	---	---
30196	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	2.22	2.22			---	---	0.119	0.119		
99826C/3314	3	1	1	50.00	---	0.00	---	+	---	6.620	---	0.000	---	+	---
31248	3	-	3	---	---	13.33	8.82	---	---	---	---	2.077	1.181	---	---
30196	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	4.44	4.44			---	---	0.692	0.692		

Table D-59 (cont.) Means

mass for organisms from KAP sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	Abundance no. m-2					Biomass g m-2						
			SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value	
Balanomorpha														
99826C/33141	1	3	.87	910.00	---	+	---	200.200	162.039	187.660	---	+	---	
31248	1	-		1986.67	1140.33	---	---	---	---	153.717	106.605	---	---	
30196	1	-		40.00	5.77	---	---	---	---	7.960	5.016	---	---	
OVERALL MEAN			---	978.89	563.01			---	---	116.446	55.121			
99826C/33141	2	3	.96	.55	3080.00	---	+	---	997.677	378.789	852.690	---	+	---
31248	2	-	---		8626.67	3378.64	---	---	---	---	406.683	112.468	---	---
30196	2	-	---		826.67	441.75	---	---	---	---	46.627	28.706	---	---
OVERALL MEAN			---		4177.78	2317.60			---	---	435.333	233.131		
99826C/33141	3	1	.59		20.00	---	+	---	11.910	---	0.000	---	+	---
31248	3	-	---		24403.33	2987.55	---	---	---	---	246.710	62.459	---	---
30196	3	-	---		316.67	301.79	---	---	---	---	505.663	505.608	---	---
OVERALL MEAN			---		8246.67	8078.79			---	---	250.791	145.987		
Chthamalus dalli														
99826C/33141	1	3	.00		280.00	---	-	---	0.247	0.247	5.610	---	-	---
31248	1	-			530.00	265.39	---	---	---	---	10.517	5.278	---	---
30196	1	-			0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN					270.00	153.08			---	---	5.376	3.038		
99826C/33141	2	3	.33		210.00	---	-	---	0.000	0.000	2.440	---	-	---
31248	2	-			270.00	205.99	---	---	---	---	3.507	2.821	---	---
30196	2	-			16.67	8.82	---	---	---	---	0.103	0.098	---	---
OVERALL MEAN					165.56	76.43			---	---	2.017	1.005		
99826C/33141	3	1			0.00	---	=	---	0.000	---	0.000	---	=	---
31248	3	-			283.33	204.32	---	---	---	---	4.207	3.374	---	---
30196	3	-			0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN					94.44	94.44			---	---	1.402	1.402		

Table D-59 (cont.) Means of abundance and biomass for organisms from KAP sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Balanus glandula</i>															
99826C/33141	1	3	1	56.67	56.67	460.00	---	-	---	1.770	1.770	162.340	---	-	---
31248	1	-	3	---	---	476.67	372.13	---	---	---	---	84.200	64.222	---	---
30196	1	-	3	---	---	33.33	12.02	---	---	---	---	7.847	5.086	---	---
OVERALL MEAN				---	---	323.33	145.08			---	---	84.796	44.599		
99826C/33141	2	3	1	70.00	60.28	2370.00	---	-	---	11.457	9.736	831.360	---	-	---
31248	2	-	3	---	---	166.67	98.21	---	---	---	---	24.050	15.666	---	---
30196	2	-	3	---	---	26.67	17.64	---	---	---	---	6.257	4.346	---	---
OVERALL MEAN				---	---	854.44	758.86			---	---	287.222	272.117		
99826C/33141	3	1	1	0.00	---	10.00	---	-	---	0.000	---	0.000	---	=	---
31248	3	-	3	---	---	23.33	14.53	---	---	---	---	4.093	2.905	---	---
30196	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	11.11	6.76			---	---	1.364	1.364		
<i>Semibalanus balanoides</i>															
99826C/33141	1	3	1	2453.33	1455.67	170.00	---	+	---	141.647	107.138	19.710	---	+	---
31248	1	-	3	---	---	806.67	596.00	---	---	---	---	57.967	39.428	---	---
30196	1	-	3	---	---	6.67	6.67	---	---	---	---	0.113	0.113	---	---
OVERALL MEAN				---	---	327.78	244.04			---	---	25.930	16.988		
99826C/33141	2	3	1	14110.00	9132.50	0.00	---	+	---	965.433	386.305	0.000	---	+	---
31248	2	-	3	---	---	4360.00	779.51	---	---	---	---	354.493	98.315	---	---
30196	2	-	3	---	---	680.00	343.95	---	---	---	---	39.553	28.461	---	---
OVERALL MEAN				---	---	1680.00	1354.30			---	---	131.349	112.155		
99826C/33141	3	1	1	590.00	---	0.00	---	+	---	111.910	---	0.000	---	+	---
31248	3	-	3	---	---	1100.00	339.56	---	---	---	---	137.817	75.172	---	---
30196	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	366.67	366.67			---	---	45.939	45.939		

Table D-59 (cont.) Means of abundance and biomass for organisms from KAP sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Lacuna spp.</i>															
99826C/33141	1	3	1	0.00	0.00	0.00	---	=	---	0.000	0.000	0.000	---	=	---
31248	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
99826C/33141	2	3	1	0.00	0.00	50.00	---	-	---	0.000	0.000	0.070	---	-	---
31248	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	2	-	3	---	---	6.67	6.67	---	---	---	---	0.030	0.030	---	---
OVERALL MEAN				---	---	18.89	15.67			---	---	0.033	0.020		
99826C/33141	3	1	1	0.00	---	0.00	---	-	---	0.000	---	0.720	---	-	---
31248	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	3	-	3	---	---	50.00	40.42	---	---	---	---	0.373	0.334	---	---
OVERALL MEAN				---	---	233.33	208.83			---	---	0.364	0.208		
<i>Littorina spp.</i>															
99826C/33141	1	3	1	580.00	244.20	1210.00	---	-	---	41.360	16.387	40.450	---	+	---
31248	1	-	3	---	---	570.00	298.39	---	---	---	---	24.590	12.609	---	---
30196	1	-	3	---	---	793.33	694.51	---	---	---	---	32.843	30.621	---	---
OVERALL MEAN				---	---	857.78	187.54			---	---	32.628	4.580		
99826C/33141	2	3	1	1180.00	640.94	4180.00	---	-	---	106.153	94.964	20.880	---	+	---
31248	2	-	3	---	---	1523.33	1268.60	---	---	---	---	69.043	63.994	---	---
30196	2	-	3	---	---	2013.33	925.14	---	---	---	---	72.630	18.525	---	---
OVERALL MEAN				---	---	2572.22	816.24			---	---	54.184	16.684		
99826C/33141	3	1	1	290.00	---	900.00	---	-	---	42.960	---	1.100	---	+	---
31248	3	-	3	---	---	123.33	21.86	---	---	---	---	1.740	1.193	---	---
30196	3	-	3	---	---	206.67	69.84	---	---	---	---	1.723	1.360	---	---
OVERALL MEAN				---	---	410.00	246.18			---	---	1.521	0.211		

Table D-59 (cont.) Means of abundance and biomass for organisms from KAP sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Littorina sitkana</i>															
99826C/3314	1	3	1	576.67	246.60	980.00	---	-	---	41.097	16.637	27.800	---	+	---
31248	1	-	3	---	---	560.00	290.23	---	---	---	---	24.027	12.176	---	---
30196	1	-	3	---	---	793.33	694.51	---	---	---	---	32.843	30.621	---	---
OVERALL MEAN				---	---	777.78	121.49			---	---	28.223	2.554		
99826C/3314	2	3	1	1180.00	640.94	4070.00	---	-	---	106.153	94.964	18.720	---	+	---
31248	2	-	3	---	---	1523.33	1268.60	---	---	---	---	69.043	63.994	---	---
30196	2	-	3	---	---	2013.33	925.14	---	---	---	---	72.630	18.525	---	---
OVERALL MEAN				---	---	2535.56	780.15			---	---	53.464	17.403		
99826C/3314	3	1	1	290.00	---	900.00	---	-	---	42.960	---	1.100	---	+	---
31248	3	-	3	---	---	123.33	21.86	---	---	---	---	1.740	1.193	---	---
30196	3	-	3	---	---	206.67	69.84	---	---	---	---	1.723	1.360	---	---
OVERALL MEAN				---	---	410.00	246.18			---	---	1.521	0.211		
<i>Littorina scutulata</i>															
99826C/3314	1	3	1	3.33	3.33	230.00	---	-	---	0.263	0.263	12.650	---	-	---
31248	1	-	3	---	---	10.00	10.00	---	---	---	---	0.563	0.563	---	---
30196	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	80.00	75.06			---	---	4.404	4.126		
99826C/3314	2	3	1	0.00	0.00	110.00	---	-	---	0.000	0.000	2.160	---	-	---
31248	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	36.67	36.67			---	---	0.720	0.720		
99826C/3314	3	1	1	0.00	---	0.00	---	=	---	0.000	---	0.000	---	=	---
31248	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		

Table D-59 (cont.) Means of abundance and biomass for organisms from KAP sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	Na	Abundance no. m-2						Biomass g m-2					
				C	SE	Q	SE	D	P-Value	C	SE	Q	SE	D	P-Value
<i>Mytilus edulis</i>															
99826C/33141	1	3	1	130.00	120.14	0.00	--	+	--	5.200	5.046	0.000	--	+	--
31248	1	-	3	--	--	0.00	0.00	--	--	--	--	0.000	0.000	--	--
30196	1	-	3	--	--	6.67	6.67	--	--	--	--	0.783	0.783	--	--
OVERALL MEAN				--	--	2.22	2.22			--	--	0.261	0.261		
99826C/33141	2	3	1	286.67	271.81	2810.00	--	-	--	1081.070	1081.045	1299.030	--	-	--
31248	2	-	3	--	--	46.67	41.77	--	--	--	--	12.587	12.557	--	--
30196	2	-	3	--	--	183.33	105.25	--	--	--	--	25.673	19.003	--	--
OVERALL MEAN				--	--	1013.33	899.20			--	--	445.763	426.650		
99826C/33141	3	1	1	80.00	--	60700.00	--	-	--	63.620	--	4.000	--	+	--
31248	3	-	3	--	--	43.33	24.04	--	--	--	--	0.647	0.098	--	--
30196	3	-	3	--	--	183.33	97.01	--	--	--	--	30.397	29.809	--	--
OVERALL MEAN				--	--	20308.89	20195.60			--	--	15.041	8.602		
<i>Turtonia minuta</i>															
99826C/33141	1	3	1	6.67	6.67	0.00	--	+	--	0.000	0.000	0.000	--	=	--
31248	1	-	3	--	--	0.00	0.00	--	--	--	--	0.000	0.000	--	--
30196	1	-	3	--	--	246.67	246.67	--	--	--	--	0.323	0.323	--	--
OVERALL MEAN				--	--	82.22	82.22			--	--	0.108	0.108		
99826C/33141	2	3	1	6.67	6.67	10220.00	--	-	--	0.000	0.000	4.730	--	-	--
31248	2	-	0	--	--	3.33	3.33	--	--	--	--	0.020	0.020	--	--
30196	2	-	0	--	--	1416.67	563.45	--	--	--	--	2.413	1.062	--	--
OVERALL MEAN				--	--	3880.00	3196.15			--	--	2.388	1.360		
99826C/33141	3	1	1	20.00	--	43490.00	--	-	--	0.000	--	8.200	--	-	--
31248	3	-	3	--	--	0.00	0.00	--	--	--	--	0.000	0.000	--	--
30196	3		3	--	--	4596.67	322.09	--	--	--	--	3.810	1.043	--	--
OVERALL MEAN				--	--	16028.89	13794.53			--	--	4.003	2.369		

Table D-59 (cont.) Means of abundance and biomass for organisms from KAP sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Pagurus spp.</i>															
99826C/3314	1	3	1	6.67	6.67	0.00	---	+	---	0.423	0.423	0.000	---	+	---
31248	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
99826C/3314	2	3	1	43.33	38.44	10.00	---	+	---	3.167	3.013	0.900	---	+	---
31248	2	-	3	---	---	13.33	13.33	---	---	---	---	0.193	0.193	---	---
30196	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	7.78	4.01			---	---	0.364	0.274		
99826C/3314	3	1	1	0.00	---	10.00	---	-	---	0.000	---	0.000	---	=	---
31248	3	-	3	---	---	10.00	0.00	---	---	---	---	2.150	1.982	---	---
30196	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	6.67	3.33			---	---	0.717	0.717		
<i>Nucella spp.</i>															
99826C/3314	1	3	1	0.00	0.00	0.00	---	=	---	0.000	0.000	0.000	---	=	---
31248	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
99826C/3314	2	3	1	0.00	0.00	0.00	---	=	---	0.000	0.000	0.000	---	=	---
31248	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
99826C/3314	3	1	1	0.00	---	0.00	---	=	---	0.000	---	0.000	---	=	---
31248	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		

Table D-59 (cont.) Means of abundance and biomass for organisms from KAP sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Nucella lima															
99826C/3314	1	3	1	0.00	0.00	0.00	---	=	---	0.000	0.000	0.000	---	=	---
31248	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
99826C/3314	2	3	1	0.00	0.00	0.00	---	=	---	0.000	0.000	0.000	---	=	---
31248	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
99826C/3314	3	1	1	0.00	---	0.00	---	=	---	0.000	---	0.000	---	=	---
31248	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
Nucella lamellosa															
99826C/3314	1	3	1	0.00	0.00	0.00	---	=	---	0.000	0.000	0.000	---	=	---
31248	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
99826C/3314	2	3	1	0.00	0.00	0.00	---	=	---	0.000	0.000	0.000	---	=	---
31248	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
99826C/3314	3	1	1	0.00	---	0.00	---	=	---	0.000	---	0.000	---	=	---
31248	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		

Table D-59 (cont.) Means of abundance and biomass for organisms from KAP sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Amphipoda															
99826C/33141	1	3	1	3.33	3.33	0.00	---	+	---	0.010	0.010	0.000	---	+	---
31248	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
99826C/33141	2	3	1	6160.00	6160.00	0.00	---	+	---	6.280	6.280	0.000	---	+	---
31248	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	2	-	3	---	---	6.67	6.67	---	---	---	---	0.013	0.013	---	---
OVERALL MEAN				---	---	2.22	2.22			---	---	0.004	0.004		
99826C/33141	3	1	1	60.00	---	11020.00	---	-	---	0.330	---	17.010	---	-	---
31248	3	-	3	---	---	40.00	23.09	---	---	---	---	0.087	0.087	---	---
30196	3	-	3	---	---	656.67	446.85	---	---	---	---	1.073	0.568	---	---
OVERALL MEAN				---	---	3905.56	3561.67			---	---	6.057	5.484		
Isopoda															
99826C/33141	1	3	1	0.00	0.00	0.00	---	=	---	0.000	0.000	0.000	---	=	---
31248	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
99826C/33141	2	3	1	60.00	60.00	0.00	---	+	---	0.000	0.000	0.000	---	=	---
31248	2	-	3	---	---	6.67	3.33	---	---	---	---	0.013	0.013	---	---
30196	2	-	3	---	---	6.67	6.67	---	---	---	---	0.200	0.200	---	---
OVERALL MEAN				---	---	4.44	2.22			---	---	0.071	0.065		
99826C/33141	3	1	1	10.00	---	10.00	---	=	---	0.040	---	0.000	---	+	---
31248	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	3	-	3	---	---	333.33	293.84	---	---	---	---	3.220	2.361	---	---
OVERALL MEAN				---	---	114.44	109.48			---	---	1.073	1.073		

Table D-59 (cont.) Means of abundance and biomass for organisms from KAP sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Errant polychaetes															
99826C/33141	1	3	1	16.67	16.67	0.000	---	+	---	0.000	0.000	0.000	---	=	---
31248	1	-	0	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	1	-	0	---	---	96.67	96.67	---	---	---	---	0.087	0.087	---	---
OVERALL MEAN				---	---	32.22	32.22			---	---	0.029	0.029		
99826C/33141	2	3	1	6.67	6.67	370.00	---	-	---	0.793	0.793	3.400	---	-	---
31248	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	2	-	3	---	---	736.67	383.51	---	---	---	---	1.427	1.197	---	---
OVERALL MEAN				---	---	368.89	212.66			---	---	1.609	0.986		
99826C/33141	3	1	1	0.00	---	1810.00	---	-	---	0.000	---	2.310	---	-	---
31248	3	-	3	---	---	6.67	3.33	---	---	---	---	0.010	0.010	---	---
30196	3	-	3	---	---	13013.33	11840.84	---	---	---	---	5.573	0.606	---	---
OVERALL MEAN				---	---	4943.33	4068.44			---	---	2.631	1.614		
Sedentary polychaetes															
99826C/33141	1	3	1	16.67	16.67	0.00	---	+	---	0.000	0.000	0.000	---	=	---
31248	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	1	-	3	---	---	96.67	96.67	---	---	---	---	0.087	0.087	---	---
OVERALL MEAN				---	---	32.22	32.22			---	---	0.029	0.029		
99826C/33141	2	3	1	0.00	0.00	510.00	---	-	---	0.000	0.000	2.940	---	-	---
31248	2	-	0	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	2	-	0	---	---	896.67	642.53	---	---	---	---	0.670	0.323	---	---
OVERALL MEAN				---	---	468.89	259.66			---	---	1.203	0.890		
99826C/33141	3	1	1	0.00	---	970.00	---	-	---	0.000	---	6.470	---	-	---
31248	3	-	3	---	---	20.00	20.00	---	---	---	---	0.000	0.000	---	---
30196	3	-	3	---	---	5243.33	2845.27	---	---	---	---	5.997	3.342	---	---
OVERALL MEAN				---	---	2077.78	1606.36			---	---	4.156	2.082		

Table D-59 (cont.) Means of abundance and biomass for organisms from KAP sheltered rocky site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Oligochaeta															
99826C/33141	1	3	1	4123.33	3724.97	0.00	---	+	---	3.367	3.307	0.000	---	+	---
31248	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	1	-	3	---	---	226.67	226.67	---	---	---	---	0.583	0.583	---	---
OVERALL MEAN				---	---	75.56	75.56			---	---	0.194	0.194		
99826C/33141	2	1	3	40.00	---	22866.67	22866.67	-	---	0.000	---	5.547	5.547	-	---
31248	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	2	-	3	---	---	2366.67	1182.66	---	---	---	---	0.398	0.123	---	---
OVERALL MEAN				---	---	8411.11	7260.00			---	---	1.982	1.786		
99826C/33141	3	1	1	0.00	---	14360.00	---	-	---	0.000	---	2.160	---	-	---
31248	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
30196	3	-	3	---	---	4743.33	3961.04	---	---	---	---	2.010	1.590	---	---
OVERALL MEAN				---	---	6367.78	4224.20			---	---	1.390	0.696		
Total organisms															
99826C/33141	1	3	1	11393.33	9245.07	2160.00	---	+	---	259.360	180.884	29.000	---	+	---
31248	1	-	3	---	---	2596.67	1463.93	---	---	---	---	182.853	121.334	---	---
30196	1	-	3	---	---	1870.00	1725.41	---	---	---	---	43.187	30.107	---	---
OVERALL MEAN				---	---	2208.89	211.19			---	---	151.843	55.972		
99826C/33141	2	3	1	48283.33	29100.75	23730.00	---	+	---	2223.337	1369.284	233.000	---	-	---
31248	2	-	3	---	---	10446.67	3008.73	---	---	---	---	513.807	80.359	---	---
30196	2	-	3	---	---	10676.67	2939.63	---	---	---	---	156.978	60.482	---	---
OVERALL MEAN				---	---	14951.11	4389.95			---	---	968.058	640.997		
99826C/33141	3	3	1	1110.00	---	323090.00	---	-	---	276.080	---	313.135	---	-	---
31248	3	-	3	---	---	25666.67	2954.87	---	---	---	---	374.280	94.554	---	---
30196	3	-	3	---	---	43590.00	13276.94	---	---	---	---	1042.947	888.091	---	---
OVERALL MEAN				---	---	130782.22	96293.00			---	---	576.787	233.747		

Table D-60. Abundance and biomass data for organisms from **PWS** coarse textured oiled quadrats sampled in **1989** (September). MVD=meter vertical drop; N=number of quadrats sampled; "Mean"=mean of quadrats; SE=standard error of the mean; "---"=insufficient or no data; and "Overall Means"=mean of site means.

Table D-60 (cont.) Means of abundance and biomass for organisms from PWS coarse textured oiled Site quadrats sampled in 1989 (Sep).

Year	Sites	MVD	N	Abundance (no. m-2)		Biomass (g m-2)	
				Mean	SE	Mean	SE
Lottiidae							
	506	1	3	40.00	40.00	4.337	4.337
	506	2	3	310.00	135.28	17.180	9.801
	506	3	2	670.00	510.00	18.265	6.315
Lottia pelta							
	506	1	3	0.00	0.00	0.000	0.000
	506	2	3	16.67	8.82	1.757	1.053
	506	3	2	20.00	10.00	4.675	2.905
Tectura persona							
	506	1	3	23.33	23.33	2.940	2.940
	506	2	3	90.00	80.21	8.553	8.117
	506	3	2	0.00	0.00	0.000	0.000
Tectura scutum							
	506	1	3	0.00	0.00	0.000	0.000
	506	2	3	0.00	0.00	0.000	0.000
	506	3	2	5.00	5.00	0.180	0.180
Balanomorpha							
	506	1	3	2296.67	1910.68	136.107	102.716
	506	2	3	1106.67	896.15	44.120	22.138
	506	3	2	2440.00	400.00	178.660	54.740
Chthamalus dalli							
	506	1	3	40.00	40.00	0.833	0.833
	506	2	3	583.33	573.36	2.747	2.667
	506	3	2	70.00	70.00	0.620	0.620
Balanus glandula							
	506	1	3	183.33	145.18	26.203	24.309
	506	2	3	146.67	127.19	6.867	3.780
	506	3	2	30.00	20.00	1.090	0.980

Table D-60 (cont.) Means of abundance and biomass for organisms from PWS coarse textured oiled site quadrats sampled in 1989 (Sep).

Year	Sites	MVD	N	Abundance (no. m-2)		Biomass (g m-2)	
				Mean	SE	Mean	SE
Semibalanus balanoides							
	506	1	3	2003.33	1698.10	107.937	77.648
	506	2	3	366.67	210.74	34.493	25.448
	506	3	2	2295.00	465.00	175.610	55.000
Lacuna spp.							
	506	1	3	0.00	0.00	0.000	0.000
	506	2	3	0.00	0.00	0.000	0.000
	506	3	2	0.00	0.00	0.000	0.000
Littorina spp.							
	506	1	3	723.33	360.57	39.593	17.762
	506	2	3	1050.00	170.39	58.923	5.659
	506	3	2	285.00	225.00	18.495	8.495
Linorina sitkana							
	506	1	3	533.33	240.09	32.963	14.362
	506	2	3	796.67	164.76	49.963	4.287
	506	3	2	90.00	30.00	10.790	0.790
Littorina scutulata							
	506	1	3	190.00	138.68	6.630	3.684
	506	2	3	253.33	21.86	8.960	2.005
	506	3	2	195.00	195.00	7.705	7.705
Mytilus edulis							
	506	1	3	376.67	376.67	93.407	93.407
	506	2	3	1593.33	465.92	950.157	218.149
	506	3	2	940.00	510.00	294.025	284.805
Turtonia minuta							
	506	1	3	0.00	0.00	0.000	0.000
	506	2	3	3.33	3.33	0.007	0.007
	506	3	2	0.00	0.00	0.000	0.000

Table D-60 (cont.) Means of abundance and biomass for organisms from PWS coarse textured oiled site quadrats sampled in 1989 (Sep).

Year	Sites	M	M	N	Abundance (no. m ⁻²)		Biomass (g m ⁻²)	
					Mean	SE	Mean	SE
<i>Pagurus spp.</i>								
	506	1		3	0.00	0.00	0.000	0.000
	506	2		3	90.00	43.59	7.160	3.513
	506	3		2	190.00	10.00	9.660	1.760
<i>Nucella spp.</i>								
	506	1		3	0.00	0.00	0.000	0.000
	506	2		3	6.67	6.67	2.937	2.937
	506	3		2	0.00	0.00	0.000	0.000
<i>Nucella lima</i>								
	506	1		3	0.00	0.00	0.000	0.000
	506	2		3	6.67	6.67	2.937	2.937
	506	3		2	0.00	0.00	0.000	0.000
<i>Nucella lamellosa</i>								
	506	1		3	0.00	0.00	0.000	0.000
	506	2		3	0.00	0.00	0.000	0.000
	506	3		2	0.00	0.00	0.000	0.000
Amphipoda								
	506	1		3	23.33	23.33	0.080	0.080
	506	2		3	223.33	133.83	0.890	0.465
	506	3		2	45.00	35.00	0.205	0.205
Isopoda								
	506	1		3	6.67	6.67	0.053	0.053
	506	2		3	16.67	16.67	0.157	0.157
	506	3		2	5.00	5.00	0.000	0.000
Errant polychaetes								
	506	1		3	0.00	0.00	0.000	0.000
	506	2		3	36.67	36.67	0.350	0.350
	506	3		2	250.00	250.00	0.155	0.155

Table D-60 (cont.) Means of abundance and biomass for organisms from PWS coarse textured oiled site quadrats sampled in 1989 (Sep).

Year	Sites	MVD	N	Abundance (no. m-2)		Biomass (g m-2)	
				Mean	SE	Mean	SE
Sedentary polychaetes							
	506	1	3	0.00	0.00	0.000	0.000
	506	2	3	6.67	6.67	0.000	0.000
	506	3	2	220.00	70.00	0.060	0.050
Oligochaeta							
	506	1	3	923.33	923.33	0.543	0.543
	506	2	3	1526.67	584.25	0.547	0.091
	506	3	2	2355.00	685.00	0.500	0.270
Total organisms							
	506	1	3	4563.33	2280.40	274.300	135.183
	506	2	3	6370.00	1652.76	1083.110	241.176
	506	3	2	9285.00	1295.00	558.260	211.450

Table D-61. Abundance and biomass data for organisms from CIK coarse textured oiled quadrats sampled in 1989 (September). MVD=meter vertical drop; N=number of quadrats sampled; "Mean "=mean of quadrats; SE=standard error of the mean; "---"=insufficient or no data; and "Overall Means"=mean of site means.

Table D-61 (cont.) Means of abundance and biomass for organisms from CIK coarse texture oiled site quadrats sampled in 1989 (Sep).

Year	Sites	MVD	N	Abundance (no. m-2)		Biomass (no m-2)	
				Mean	SE	Mean	SE
Lottiidae							
	50226	1	3	23.33	23.33	0.077	0.077
	51091	1	3	50.00	50.00	8.243	8.243
	OVERALL MEAN			36.67	13.33	4.160	4.083
	50226	2	2	0.00	0.00	0.000	0.000
	51091	2	3	323.33	323.33	14.407	14.407
	OVERALL MEAN			161.67	161.67	7.203	7.203
	50226	3	0	--	--	--	--
	51091	3	3	40.00	40.00	1.747	1.747
	OVERALL MEAN			40.00	--	1.747	--
Lottia pelta							
	50226	1	3	0.00	0.00	0.000	0.000
	51091	1	3	10.00	10.00	1.767	1.767
	OVERALL MEAN			5.00	5.00	0.883	0.883
	50226	2	2	0.00	0.00	0.000	0.000
	51091	2	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	50226	3	0	--	--	--	--
	51091	3	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	--	0.000	--
Tectura persona							
	50226	1	3	0.00	0.00	0.000	0.000
	51091	1	3	33.33	33.33	6.047	6.047
	OVERALL MEAN			16.67	16.67	3.023	3.023
	50226	2	2	0.00	0.00	0.000	0.000
	51091	2	3	3.33	3.33	0.160	0.160
	OVERALL MEAN			1.67	1.67	0.080	0.080
	50226	3	0	--	--	--	--
	51091	3	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	--	0.000	--
Tectura scutum							
	50226	1	3	0.00	0.00	0.000	0.000
	51091	1	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	50226	2	2	0.00	0.00	0.000	0.000
	51091	2	3	3.33	3.33	0.280	0.280
	OVERALL MEAN			1.67	1.67	0.140	0.140
	50226	3	0	--	--	--	--
	51091	3	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	--	0.000	--

Table D-61 (cont.) Means of abundance and biomass for organisms from CIK coarse textured oiled site quadrats sampled in 1989 (Sep).

Once each quadrat sampled in 1989 (50p).					Abundance (no. m-2)		Biomass (nom-2)	
Year	Sites	M	M	N	Mean	SE	Mean	SE
Balanomorpha								
	50226	1		3	3580.00	3580.00	173.803	173.803
	51091	1		3	1480.00	1470.01	120.075	120.110
	OVERALL MEAN				2530.00	1050.00	146.957	26.847
	50226	2		2	10.00	0.00	0.100	0.200
	51091	2		3	2163.33	2163.33	255.320	255.320
	OVERALL MEAN				1086.67	1076.67	127.760	127.560
	50226	3		0	---	---	---	---
	51091	3		3	676.67	478.06	45.933	56.667
	OVERALL MEAN				676.67	---	45.933	---
Chthamalus dalli								
	50226	1		3	2520.00	2520.00	19.240	19.240
	51091	1		3	206.67	206.67	2.457	2.457
	OVERALL MEAN				1363.33	1156.67	10.848	8.392
	50226	2		2	0.00	0.00	0.000	0.000
	51091	2		3	3.33	3.33	0.010	0.010
	OVERALL MEAN				1.67	1.67	0.005	0.005
	50226	3		0	---	---	---	---
	51091	3		3	0.00	0.00	0.000	0.000
	OVERALL MEAN				0.00	---	0.000	---
Balanus glandula								
	50226	1		3	643.33	643.33	127.810	127.810
	51091	1		3	576.67	576.67	81.503	81.503
	OVERALL MEAN				610.00	33.33	104.657	23.153
	50226	2		2	0.00	0.00	0.000	0.000
	51091	2		3	443.33	443.33	17.187	17.187
	OVERALL MEAN				221.67	221.67	8.593	8.593
	50226	3		0	---	---	---	---
	51091	3		3	333.33	318.45	15.820	16.583
	OVERALL MEAN				333.33	---	15.820	---
Semibalanus balanoides								
	50226	1		3	416.67	416.67	26.753	26.753
	51091	1		3	380.00	380.00	35.790	35.790
	OVERALL MEAN				398.33	18.33	31.272	4.518
	50226	2		2	5.00	5.00	0.050	0.050
	51091	2		3	1593.33	1593.33	235.970	235.970
	OVERALL MEAN				799.17	794.17	118.010	117.960
	50226	3		0	---	---	---	---
	51091	3		3	270.00	168.62	30.214	38.710
	OVERALL MEAN				270.00	---	30.214	---

Table D-61 (cont.) **Means of** abundance **and** biomass for organisms from **CIK** coarse texture oiled site quadrats sampled in **1989 (Sep)**.

One-day site quadrats sampled in 1993 (Sep).				Abundance (no. m ⁻²)		Biomass (no m ⁻²)	
Year	Sites	MVD	N	Mean	SE	Mean	SE
<i>Lacuna spp.</i>							
	50226	1	3	0.00	0.00	0.000	0.000
	51091	1	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	50226	2	2	0.00	0.00	0.000	0.000
	51091	2	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	50226	3	0	—	—	—	—
	51091	3	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	—	0.000	—
<i>Littorina spp.</i>							
	50226	1	3	13.33	13.33	0.430	0.430
	51091	1	3	1520.00	1520.00	84.450	84.450
	OVERALL MEAN			766.67	753.33	42.440	42.010
	50226	2	2	40.00	40.00	5.350	5.350
	51091	2	3	1536.67	1536.67	85.643	85.643
	OVERALL MEAN			788.33	748.33	45.497	40.147
	50226	3	0	—	—	—	—
	51091	3	3	439.53	335.60	10.101	6.582
	OVERALL MEAN			439.53	—	10.101	—
<i>Littorina sitkana</i>							
	50226	1	3	13.33	13.33	0.430	0.430
	51091	1	3	1520.00	1520.00	84.450	84.450
	OVERALL MEAN			766.67	753.33	42.440	42.010
	50226	2	2	40.00	40.00	5.350	5.350
	51091	2	3	1343.33	1343.33	78.153	78.153
	OVERALL MEAN			691.67	651.67	41.752	36.402
	50226	3	0	—	—	—	—
	51091	3	3	439.53	335.60	10.101	6.582
	OVERALL MEAN			439.53	—	10.101	—
<i>Littorina scutulata</i>							
	50226	1	3	0.00	0.00	0.000	0.000
	51091	1	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	50226	2	2	0.00	0.00	0.000	0.000
	51091	2	3	193.33	193.33	7.490	7.490
	OVERALL MEAN			96.67	96.67	3.745	3.745
	50226	3	0	—	—	—	—
	51091	3	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	—	0.000	—

Table D-61 (cont.) **Means of abundance and biomass for organisms from CIK coarse textured**

Year	Sites	M	M	N	Abundance (no.m-2)		Biomass (no m-2)	
					Mean	SE	Mean	SE
<i>Mytilus edulis</i>								
	50226	1		3	10.00	10.00	0.800	0.800
	51091	1		3	2623.33	2623.33	138.083	138.083
	OVERALL MEAN				1316.67	1306.67	69.442	68.642
	50226	2		2	350.00	340.00	12.865	13.315
	51091	2		3	46.67	41.77	17.336	21.613
	OVERALL MEAN				198.33	151.67	17.464	4.149
	50226	3		0	---	---	---	---
	51091	3		3	66.67	52.39	23.272	19.241
	OVERALL MEAN				66.67	---	23.272	---
<i>Turtonia minuta</i>								
	50226	1		3	0.00	0.00	0.000	0.000
	51091	1		3	10.00	10.00	0.030	0.030
	OVERALL MEAN				5.00	5.00	0.015	0.015
	50226	2		2	0.00	0.00	0.000	0.000
	51091	2		3	0.00	0.00	0.000	0.000
	OVERALL MEAN				0.00	0.00	0.000	0.000
	50226	3		0	---	---	---	---
	51091	3		3	0.00	0.00	0.000	0.000
	OVERALL MEAN				0.00	---	0.000	---
<i>Pagurus spp.</i>								
	50226	1		3	0.00	0.00	0.000	0.000
	51091	1		3	10.00	10.00	1.150	1.150
	OVERALL MEAN				5.00	5.00	0.575	0.575
	50226	2		2	0.00	0.00	0.000	0.000
	51091	2		3	0.00	0.00	0.000	0.000
	OVERALL MEAN				0.00	0.00	0.000	0.000
	50226	3		0	---	---	---	---
	51091	3		3	3.33	3.33	0.463	0.463
	OVERALL MEAN				3.33	---	0.463	---
<i>Nucella spp.</i>								
	50226	1		3	0.00	0.00	0.000	0.000
	51091	1		3	0.00	0.00	0.000	0.000
	OVERALL MEAN				0.00	0.00	0.000	0.000
	50226	2		2	0.00	0.00	0.000	0.000
	51091	2		3	0.00	0.00	0.000	0.000
	OVERALL MEAN				0.00	0.00	0.000	0.000
	50226	3		0	---	---	---	---
	51091	3		3	0.00	0.00	0.000	0.000
	OVERALL MEAN				0.00	---	0.000	---

Table D-61 (cont.) Means of abundance and biomass for organisms from CIK coarse textured oiled site quadrats sampled in 1989 (Sep).

One site quadrats sampled in 1998 (Sep.)				Abundance (no.m-2)		Biomass (no.m-2)	
Year	S i	MVD	N	Mean	SE	Mean	SE
<i>Nucella lima</i>							
	50226	1	3	0.00	0.00	0.000	0.000
	51091	1	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	50226	2	2	0.00	0.00	0.000	0.000
	51091	2	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	50226	3	0	—	—	—	—
	51091	3	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	—	0.000	—
<i>Nucella lamellosa</i>							
	50226	1	3	0.00	0.00	0.000	0.000
	51091	1	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	50226	2	2	0.00	0.00	0.000	0.000
	51091	2	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	50226	3	0	—	—	—	—
	51091	3	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	—	0.000	—
<i>Amphipoda</i>							
	50226	1	3	30.00	20.82	0.349	0.373
	51091	1	3	193.33	193.33	2.500	2.500
	OVERALL MEAN			111.67	81.67	1.437	1.063
	50226	2	2	1610.00	1510.00	2.540	4.620
	51091	2	3	1623.33	1323.96	2.846	3.875
	OVERALL MEAN			1616.67	6.67	4.248	0.372
	50226	3	0	—	—	—	—
	51091	3	3	10.47	10.47	0.027	0.013
	OVERALL MEAN			10.47	—	0.027	—
<i>Isopoda</i>							
	50226	1	3	0.00	0.00	0.000	0.000
	51091	1	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000
	50226	2	2	5.00	5.00	0.000	0.000
	51091	2	3	0.00	0.00	0.000	0.000
	OVERALL MEAN			2.50	2.50	0.000	0.000
	50226	3	0	—	—	—	—
	51091	3	3	13.33	13.33	0.120	0.120
	OVERALL MEAN			13.33	—	0.120	—

Table D-61 (cont.) Means of abundance and biomass for organisms from CIK coarse textured oiled site quadrats sampled in 1989 (Sep).

One site quadrats sampled in 1988 (Sep.)				Abundance (no. m-2)			Biomass (no m-2)	
Year	Sites	MVD	N	Mean	SE		Mean	SE
Errant polychaetes								
	50226	1	3	0.00	0.00		0.000	0.000
	51091	1	3	0.00	0.00		0.000	0.000
	OVERALL MEAN			0.00	0.00	0.000	0.000	0.000
	50226	2	2	0.00	0.00		0.000	0.000
	51091	2	3	3.33	3.33		0.000	0.000
	OVERALL MEAN			1.67	1.67		0.000	0.000
	50226	3	0	---	---		---	---
	51091	3	3	63.80	58.19		3.497	3.338
	OVERALL MEAN			63.80	---		3.497	---
Sedentary polychaetes								
	50226	1	3	0.00	0.00		0.000	0.000
	51091	1	3	0.00	0.00		0.000	0.000
	OVERALL MEAN			0.00	0.00		0.000	0.000
	50226	2	2	0.00	0.00		0.000	0.000
	51091	2	3	0.00	0.00		0.000	0.000
	OVERALL MEAN			0.00	0.00		0.000	0.000
	50226	3	0	---	---		---	---
	51091	3	3	0.00	0.00		0.000	0.000
	OVERALL MEAN			0.00	---		0.000	---
Oligochaeta								
	50226	1	3	310.00	265.77		0.883	1.043
	51091	1	3	1040.00	875.39		0.512	0.733
	OVERALL MEAN			675.00	365.00		0.888	0.155
	50226	2	3	310.00	265.77		0.883	1.043
	51091	2	3	1040.00	875.39		0.512	0.733
	OVERALL MEAN			675.00	365.00		0.888	0.155
	50226	3	0	---	---		---	---
	51091	3	3	4416.20	2290.25		0.652	0.307
	OVERALL MEAN			4416.20	---		0.652	---
Total organisms								
	50226	1	3	4523.33	3966.29		173.145	176.630
	51091	1	3	7746.67	7561.76		354.539	359.757
	OVERALL MEAN			6135.00	1611.67		268.193	91.563
	50226	2	2	2880.00	1350.00		20.005	24.495
	51091	2	3	7393.33	3466.59		370.228	381.834
	OVERALL MEAN			5136.67	2256.67		203.165	178.670
	50226	3	0	---	---		---	---
	51091	3	3	7321.40	2861.88		96.624	70.501
	OVERALL MEAN			7321.40	---		96.624	---

Table D-62. Abundance and biomass data for organisms from KAP coarse textured quadrats sampled in 1989 (September). MVD=meter vertical drop; Nc and No=number of quadrats sampled on control and oiled sites, respectively; C=control site mean; O=oiled site mean; SE=standard error of the mean; D=direction of difference between means with respect to the control site; and "---"=insufficient or no data.

Table D-62 (cont.) Means of abundance and biomass for organisms from KAP coarse textured site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Lottiidae															
94935C/31288	1	3	3	60.00	60.00	3.33	3.33	+	0.3991	5.327	5.327	0.063	0.063	+	0.3791
94935C/31288	2	3	3	13.33	8.82	0.00	0.00	+	0.2051	2.463	1.599	0.000	0.000	+	0.1982
94935C/31288	3	0	3	---	---	13.33	13.33		---	---	---	1.157	1.157		---
Lottia pelta															
94935C/31288	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/31288	2	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/31288	3	0	3	---	---	0.00	0.00		---	---	---	0.00	0.00		---
Tectura persona															
94935C/31288	1	3	3	56.67	56.67	0.00	0.00	+	0.3739	5.187	5.187	0.000	0.000	+	0.3739
94935C/31288	2	3	3	13.33	8.82	0.00	0.00	+	0.2051	2.463	1.599	0.000	0.000	+	0.1982
94935C/31288	3	0	3	---	---	13.33	13.33		---	---	---	1.157	1.157		---
Tectura scutum															
94935C/31288	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/31288	2	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/31288	3	0	3	---	---	0.00	0.00		---	---	---	0.00	0.00		---
Balanomorpha															
94935C/31288	1	3	3	4553.33	1983.41	3.33	3.33	+	0.0011	1147.237	607.323	0.000	0.000	+	0.0013
94935C/31288	2	3	3	553.33	409.57	0.00	0.00	+	0.0195	109.380	89.326	0.000	0.000	+	0.0117
94935C/31288	3	0	3	---	---	1926.67	1926.67		---	---	---	26.97	26.97		---

Table D-62 (cont.) Means of abundance and biomass for organisms from K

1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2					Biomass g m-2				P-Value
				C	SE	O	SE	D	O	SE	D		
<i>Chthamalus dalli</i>													
94935C/31288	1	3	3	000	0.00	0.00	0.00	=	0.000	0.000	=	1.0000	
94935C/31288	2	3	3	000	0.00	0.00	0.00	=	0.000	0.000	=	1.0000	
94935C/31288	3	0	3	---	---	3.33	3.33		0.053	0.053		---	
<i>Balanus glandula</i>													
94935C/31288	1	3	3	302000	1618.53	0.00	0.00	+	0.000	0.000	+	0.1450	
94935C/31288	2	3	3	50667	387.74	0.00	0.00	+	0.000	0.000	+	0.2883	
94935C/31288	3	0	3	---	---	3.33	3.33		0.517	0.517		---	
<i>Semibalanus balanoides</i>													
94935C/31288	1	3	3	66667	80.07	0.00	0.00	+	0.000	0.000	+	0.0000	
94935C/31288	2	3	3	000	0.00	0.00	0.00	=	0.000	0.000	=	1.0000	
94935C/31288	3	0	3	---	---	1550.00	1650.00		25.473	25.473		---	
<i>Lacuna spp.</i>													
94935C/31288	1	3	3	000	0.00	0.00	0.00	=	0.000	0.000	=	1.0000	
94935C/31288	2	3	3	000	0.00	0.00	0.00	=	0.000	0.000	=	1.0000	
94935C/31288	3	0	3	---	---	0.00	0.00		0.000	0.000		---	
<i>Littorina spp.</i>													
94935C/31288	1	3	3	201667	906.83	16.67	6.67	+	0.687	0.662	+	0.1619	
94935C/31288	2	3	3	245000	1560.27	0.00	0.00	+	0.000	0.000	+	0.2174	
94935C/31288	3	0	3	---	---	476.67	476.67		58.01	58.01		---	

Table D-62 (cont.) Means of abundance and biomass for organisms from KAP coarse textured site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Littorina sitkana</i>															
94935C/31288	1	3	3	1963.33	878.60	16.67	6.67	+	0.0911	111.990	65.559	0.687	0.662	+	0.1648
94935C/31288	2	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/31288	3	0	3	---	---	476.67	476.67		---	---	---	58.013	58.013		---
<i>Littorina scutulata</i>															
94935C/31288	1	3	3	53.33	29.06	0.00	0.00	+	0.1404	1.690	0.919	0.000	0.000	+	0.1397
94935C/31288	2	3	3	133.33	46.67	0.00	0.00	+	0.0461	2.640	1.151	0.000	0.000	+	0.0835
94935C/31288	3	0	3	---	---	0.00	0.00		---	---	---	0.000	0.000		---
<i>Mytilus edulis</i>															
94935C/31288	1	3	3	86.67	76.88	13.33	13.33	+	0.4005	6.787	6.682	0.010	0.010	+	0.3679
94935C/31288	2	3	3	386.67	189.77	3.33	3.33	+	0.1135	208.180	118.278	0.000	0.000	+	0.1532
94935C/31288	3	0	3	---	---	16.67	16.67		---	---	---	11.290	11.290		---
<i>Tutonia minuta</i>															
94935C/31288	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/31288	2	3	3	0.00	0.00	3.33	3.33	-	0.3739	0.000	0.000	0.000	0.000	=	1.0000
94935C/31288	3	0	3	---	---	0.00	0.00		---	---	---	0.000	0.000		---
<i>Pagurus spp.</i>															
94935C/31288	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/31288	2	3	3	30.00	20.82	0.00	0.00	+	0.2230	1.480	0.946	0.000	0.000	+	0.1927
94935C/31288	3	0	3	---	---	3.33	3.33		---	---	---	0.300	0.300		---

Table D-62 (cont.) Means of abundance and biomass for organisms from KAP coarse textured site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Nucella spp.															
94935C/3128	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/3128	2	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/3128	3	0	3	---	---	0.00	0.00		---	---	---	0.000	0.000		---
Nucella lima															
94935C/3128	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/3128	2	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/3128	3	0	3	---	---	0.00	0.00		---	---	---	0.000	0.000		---
Nucella lamellosa															
94935C/3128	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/3128	2	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/3128	3	0	3	---	---	0.00	0.00		---	---	---	0.000	0.000		---
Amphipoda															
94935C/3128	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/3128	2	3	3	3.33	3.33	3.33	3.33	=	1.0000	0.017	0.017	0.000	0.000	+	0.3739
94935C/3128	3	0	3	---	---	0.00	0.00		---	---	---	0.000	0.000		---
Isopoda															
94935C/3128	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/3128	2	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/3128	3	0	3	---	---	6.67	6.67		---	---	---	0.603	0.603		---

Table D-62 (cont.) Means of abundance and biomass for organisms from KAP coarse textured site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	no. m-2						g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Errant polychaetes															
94935C/3128	1	3	3	6.67	6.67	0.00	0.00	+	0.3739	0.017	0.017	0.000	0.000	+	0.3739
94935C/3128	2	3	3	283.33	148.36	0.00	0.00	+	0.1288	0.370	0.178	0.000	0.000	+	0.1060
94935C/3128	3	0	3	---	---	0.00	0.00		---	---	---	0.00	0.00		---
Sedentary polychaetes															
94935C/3128	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
94935C/3128	2	3	3	1330.00	779.64	0.00	0.00	+	0.1630	1.147	0.532	0.00	0.00	+	0.398
94935C/3128	3	0	3	---	---	20.00	20.00		---	---	---	0.00	0.00		---
Oligochaeta															
94935C/3128	1	3	3	66.67	56.96	4526.67	2462.41	-	0.1444	0.000	0.000	1.450	0.904	-	0.1839
94935C/3128	2	3	3	4843.33	3513.85	1853.33	1778.86	+	0.4900	0.310	0.248	0.510	0.428	-	0.7065
94935C/3128	3	0	3	---	---	66.67	61.73		---	---	---	0.000	0.000		---
Total organisms															
94935C/3128	1	3	3	6943.33	2747.44	4656.67	2522.14	+	0.5729	1273.997	591.088	2.260	0.476	+	0.0978
94935C/3128	2	3	3	12690.00	5436.33	1986.67	1800.01	+	0.1350	491.750	304.256	0.535	0.430	+	0.1817
94935C/3128	3	0	3	---	---	2696.67	2460.57		---	---	---	98.570	98.565		---

Table D-63. Abundance and biomass data for organisms from PWS sheltered estuarine quadrats sampled in 1989 (September). MVD=meter vertical drop; Nc and No=number of quadrats sampled on control and oiled sites, respectively; C=control site mean; O=oiled site mean; SE=standard error of the mean; D=direction of difference between means with respect to the control site; and "---"=insufficient or no data.

Table D-63 (cont.) Means of abundance and biomass for organisms from PWS sheltered estuarine site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Lottiidae															
2397C/208-05	1	3	5	30.00	30.00	4.00	4.00	+	1.0000	2.520	2.520	0.656	0.656	+	1.0000
2397C/208-05	2	3	6	433.33	378.43	33.33	19.78	+	0.0849	15.440	10.873	4.928	2.762	+	0.2400
2397C/208-05	3	3	2	1206.67	607.98	85.00	15.00	+	0.0849	22.590	12.349	7.995	0.325	+	0.2400
Lottia pelta															
2397C/208-05	1	3	5	3.33	3.33	4.00	4.00	-	0.9132	0.223	0.223	0.656	0.656	-	0.6440
2397C/208-05	2	3	6	36.67	20.28	13.33	8.43	+	0.2389	4.610	2.909	2.922	2.002	+	0.6438
2397C/208-05	3	3	2	50.00	50.00	10.00	10.00	+	0.5817	4.903	4.903	0.900	0.900	+	0.5740
Tectura persona															
2397C/208-05	1	3	5	6.67	6.67	0.00	0.00	+	0.4226	0.763	0.763	0.000	0.000	+	0.4226
2397C/208-05	2	3	6	13.33	13.33	18.33	12.76	0	0.8153	0.820	0.820	1.838	1.330	0	0.6295
2397C/208-05	3	3	2	6.67	6.67	75.00	5.00	0	0.8153	0.337	0.337	7.095	0.575	0	0.6295
Tectura scutum															
2397C/208-05	1	3	5	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
2397C/208-05	2	3	6	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
2397C/208-05	3	3	2	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
Balanomorpha															
2397C/208-05	1	3	5	22193.33	10935.11	94.00	62.26	+	0.0325	556.667	245.119	1.136	0.726	+	0.0210
2397C/208-05	2	3	6	44213.33	14752.87	2113.33	957.79	+	0.0545	887.980	447.394	80.680	31.407	+	0.1442
2397C/208-05	3	3	2	28420.00	21561.35	1310.00	1220.00	+	0.0545	443.057	235.667	309.025	306.115	+	0.1442

Table D-63 (cont.) Means of abundance and biomass for organisms from PWS sheltered estuarine site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						D	P-Value	Biomass g m-2			
				C	SE	O	SE	C	SE			O	SE		
<i>Chthamalus dalli</i>															
2397C/208-09	1	5	3	0.00	0.00	0.00	0.00	=	1.0000		0.000	0.000	0.000	0.000	
2397C/208-09	2	3	6	1343.33	1343.33	58.33	58.33	+	0.4633		4.623	4.623	0.433	0.433	
2397C/208-09	3	3	2	0.00	0.00	0.00	0.00	=	1.0000		0.000	0.000	0.000	0.000	
<i>Balanus glandula</i>															
2397C/208-09	1	3	5	116.67	111.70	0.00	0.00	+	0.1171		6.037	5.967	0.000	0.000	
2397C/208-09	2	3	6	726.67	716.69	36.67	24.04	+	0.4561		203.650	202.975	5.500	3.249	
2397C/208-09	3	3	2	10.00	5.77	15.00	5.00	-	0.4561		0.377	0.219	1.070	1.000	
<i>Semibalanus balanoides</i>															
2397C/208-09	1	3	5	9940.00	6009.50	84.00	57.32	+	0.0094		437.553	218.621	1.126	0.723	
2397C/208-09	2	3	6	26393.33	16807.55	931.67	453.49	+	0.1171		554.847	317.936	69.803	28.284	
2397C/208-09	3	3	2	9456.67	7790.96	1125.00	1045.00	+	0.1171		336.350	194.737	304.940	302.100	
<i>Lacuna spp.</i>															
2397C/208-09	1	3	5	0.00	0.00	0.00	0.00	=	1.0000		0.000	0.000	0.000	0.000	
2397C/208-09	2	3	6	0.00	0.00	0.00	0.00	=	1.0000		0.000	0.000	0.000	0.000	
2397C/208-09	3	3	2	693.33	678.39	20.00	20.00	+	0.4980		2.153	2.079	0.020	0.020	
<i>Littorina spp.</i>															
2397C/208-09	1	3	5	1820.00	1500.18	38.00	35.55	+	0.0149		44.103	14.997	2.992	2.883	
2397C/208-09	2	3	6	2976.67	2300.81	318.33	167.36	+	0.1161		57.930	29.991	24.857	13.163	
2397C/208-09	3	3	2	3063.33	1809.18	235.00	105.00	+	0.1161		37.377	19.519	25.915	16.855	

Table D-63 (cont.) Means of abundance and biomass for organisms from PWS sheltered estuarine site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Littorina sitkana</i>															
2397C/208-09	1	3	5	163.33	82.93	36.00	36.00	+	0.1161	21.523	17.166	2.904	2.904	+	0.2683
2397C/208-09	2	3	6	303.33	219.57	255.00	142.10	+	0.8538	16.563	8.943	23.150	12.430	-	0.7405
2397C/208-09	3	3	2	120.00	72.34	190.00	130.00	-	0.8538	6.967	5.397	24.075	18.225	-	0.7405
<i>Littorina scutulata</i>															
2397C/208-09	1	3	5	1656.67	1475.13	2.00	2.00	+	0.8538	22.580	15.848	0.088	0.088	+	0.7405
2397C/208-09	2	3	6	2673.33	2083.96	63.33	35.09	+	0.0224	41.367	21.785	1.707	0.917	+	0.0594
2397C/208-09	3	3	2	2136.67	1085.12	45.00	25.00	+	0.0224	30.343	15.160	1.840	1.370	+	0.0594
<i>Mytilus edulis</i>															
2397C/208-09	1	3	5	280.00	275.02	12.00	12.00	+	0.2656	57.617	57.617	1.296	1.296	+	0.5685
2397C/208-09	2	3	6	2523.33	1216.89	511.67	293.84	+	0.0617	1020.770	177.377	470.002	276.555	+	0.2323
2397C/208-09	3	3	2	1613.33	1078.00	850.00	720.00	+	0.0617	849.917	718.190	599.280	571.440	+	0.2323
<i>Turtonia minuta</i>															
2397C/208-09	1	3	5	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
2397C/208-09	2	3	6	10.00	10.00	0.00	0.00	+	0.4226	0.013	0.013	0.000	0.000	+	0.4226
2397C/208-09	3	3	2	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000

Table D-63 (cont.) Means of abundance and biomass for organisms from PWS sheltered estuarine site quadrats sampled in 1989 (Sep).

				no. m-2						g m-2					
				C	SE	C	SE	D	D Value	C	SE	C	SE	D	D Value
<i>Pagurus spp.</i>															
2397C/208-09	1	3	5	3.33	3.33	0.00	0.00	+	0.4226	0.000	0.000	0.000	0.000	=	1.0000
2397C/208-09	2	3	6	73.33	63.60	13.33	13.33	+	0.2332	4.677	2.567	1.405	1.405	+	0.2578
2397C/208-09	3	3	2	63.33	44.85	10.00	10.00	+	0.2332	9.083	8.731	0.255	0.255	+	0.2578
<i>Nucella</i> ~~O~~															
2397C/208-09	1	3	5	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	=	1.0000	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	=	1.0000
2397C/208-09	2	3	6	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
2397C/208-09	3	3	2	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	=	1.00 ~~00~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	=	1.0000
<i>Nucella lima</i>															
2397C/208-09	1	3	5	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
2397C/208-09	2	3	6	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	=	1.00 ~~00~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	=	1.0000
2397C/208-09	3	3	2	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
<i>Nucella lamellosa</i>															
2397C/208-09	1	3	5	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
2397C/208-09	2	3	6	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	=	1.00 ~~00~~	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	=	1.0000
2397C/208-09	3	3	2	~~0.00~~	~~0.00~~	~~0.00~~	~~0.00~~	=	1.0000	~~0.000~~	~~0.000~~	~~0.000~~	~~0.000~~	=	1.0000
<i>Amphipoda</i>															
2397C/208-09	1	3	5	153.33	153.33	42.00	34.70	+	0.0617	0.497	0.497	0.796	0.563	-	0.2323
2397C/208-09	2	3	6	56.67	24.04	605.00	485.85	-	0.4660	0.133	0.069	1.875	1.618	-	0.4861
2397C/208-09	3	3	2	416.667	353.663	95.000	75.000	+	0.5347	1.030	1.005	0.470	0.040	+	0.6953

Table D-63 (cont.) Means of abundance and biomass for organisms from PWS sheltered estuarine site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Isopoda															
2397C/208-09	1	3	5	6.67	6.67	0.00	0.00	+	0.4226	0.010	0.010	0.000	0.000	+	0.4226
2397C/208-09	2	3	6	90.00	75.06	13.33	9.89	+	0.0972	4.220	3.457	1.810	1.776	+	0.5070
2397C/208-09	3	3	2	36.67	36.67	145.00	145.00	-	0.0972	0.530	0.530	1.250	1.250	-	0.5070
Errant polychaetes															
2397C/208-09	1	3	5	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
2397C/208-09	2	3	6	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
2397C/208-09	3	3	2	46.67	14.53	0.00	0.00	+	0.0887	0.067	0.052	0.000	0.000	+	0.3969
Sedentary polychaetes															
2397C/208-09	1	3	5	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
2397C/208-09	2	3	6	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
2397C/208-09	3	3	2	273.33	243.61	0.00	0.00	+	0.4487	0.063	0.063	0.000	0.000	+	0.4950
Oligochaeta															
2397C/208-09	1	3	5	1136.67	1057.68	474.00	215.68	+	0.2332	0.283	0.264	0.130	0.055	+	0.2578
2397C/208-09	2	3	6	1333.33	1106.68	1358.33	949.53	-	0.9877	0.643	0.604	0.527	0.343	+	0.8603
2397C/208-09	3	3	2	33.33	33.33	385.00	365.00	-	0.9877	0.017	0.017	0.050	0.050	-	0.8603
Total organisms															
2397C/208-09	1	3	5	28360.00	11054.80	708.00	202.22	+	0.0101	662.693	247.967	7.720	5.548	+	0.0362
2397C/208-09	2	3	6	53133.33	15929.69	5048.33	2492.46	+	0.0033	2020.465	498.302	586.148	317.774	+	0.0395
2397C/208-09	3	3	2	37370.000	21048.219	3395.000	2655.000	+	0.0033	1370.440	959.075	944.300	861.990	+	0.0395

Table D-64. Abundance and biomass data for organisms from CIK sheltered estuarine quadrats sampled in 1989. MVD=meter vertical drop; N=number of quadrats used in analyses; "Mean"=mean of quadrats; SE=standard error of the mean; "---"=insufficient or no data; and "Overall Means"=mean of site means. oiled site quadrats sampled in 1989 (Sep).

Sites	MVD	N	Abundance (no. m-2)		Biomass (no m-2)		
			Mean	SE	Mean	SE	
Lottiidae							
50221	1	3	0.00	0.00	0.000	0.000	
50981	1	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	2	3	0.00	0.00	0.000	0.000	
50981	2	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	3	1	40.00	---	2.870	—	
50981	3	3	6.67	6.67	0.563	0.563	
OVERALL MEAN			23.34	—	1.717	—	
Lottia pelta							
50221	1	3	0.00	0.00	0.000	0.000	
50981	1	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	2	3	0.00	0.00	0.000	0.000	
50981	2	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	3	1	0.00	---	0.000	—	
50981	3	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	—	0.000	—	
Tedurapersona							
50221	1	3	0.00	0.00	0.000	0.000	
50981	1	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	2	3	0.00	0.00	0.000	0.000	
50981	2	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	3	1	0.00	—	0.000	—	
50981	3	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	—	0.000	—	
Tectura scutum							
50221	1	3	0.00	0.00	0.000	0.000	
50981	1	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	2	3	0.00	0.00	0.000	0.000	
50981	2	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	3	1	10.00	—	0.940	—	
50981	3	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			5.00	—	0.470	—	

Table **D-64** (cont.) Means of abundance and biomass for organisms from CIK sheltered estuarine oiled site quadrats sampled in **1989** (Sep).

			Abundance (no. m-2)		Biomass (no m-2)	
Sites	MVD	N	Mean	SE	Mean	SE
Balanomorpha						
50221	1	3	490.00	485.01	77.967	77.752
50981	1	3	42.23	42.13	3.198	3.198
OVERALL MEAN			266.12	223.88	40.582	37.385
50221	2	3	900.00	510.29	76.200	46.823
50981	2	3	477.77	268.57	34.700	20.342
OVERALL MEAN			688.88	211.12	55.450	20.750
50221	3	3	6210.00	---	378.760	---
50981	3	3	3468.87	832.22	250.933	110.233
OVERALL MEAN			4839.43	---	314.847	---
Chthamalus dalli						
50221	1	3	0.00	0.00	0.000	0.000
50981	1	3	0.00	0.00	0.000	0.000
OVERALL MEAN			0.00	0.00	0.000	0.000
50221	2	3	0.00	0.00	0.000	0.000
50981	2	3	0.00	0.00	0.000	0.000
OVERALL MEAN			0.00	0.00	0.000	0.000
50221	3	1	0.00	---	0.000	---
50981	3	3	0.00	0.00	0.000	0.000
OVERALL MEAN			0.00	---	0.000	---
Balanus glandula						
50221	1	3	323.33	318.35	63.743	63.528
50981	1	3	0.00	0.00	0.000	0.000
OVERALL MEAN			161.67	161.67	31.872	31.872
50221	2	3	116.67	88.38	17.063	13.681
50981	2	3	34.43	9.87	6.877	1.266
OVERALL MEAN			75.55	41.12	11.970	5.093
50221	3	1	150.00	---	27.240	---
50981	3	3	70.00	50.00	15.200	11.796
OVERALL MEAN			110.00	---	21.22	---
Semibalanus balanoides						
50221	1	3	110.00	110.00	12.633	12.633
50981	1	3	8.90	8.90	1.324	1.324
OVERALL MEAN			59.45	50.55	6.979	5.655
50221	2	3	523.33	305.31	53.950	29.613
50981	2	3	325.57	207.06	25.617	18.740
OVERALL MEAN			424.45	98.88	39.783	14.167
50221	3	1	2720.00	---	346.870	---
50981	3	3	2237.77	571.02	225.578	100.647
OVERALL MEAN			2478.89	---	286.224	---

Table **D-64**(cont.) Means of abundance and biomass for organisms from CIK sheltered estuarine oiled site quadrats sampled in 1989 (Sep).

Sites	MVD	N	Abundance (no,m-2)		Biomass(no m-2)		
			Mean	SE	Mean	SE	
Lacuna spp							
50221	1	3	0.00	0.00	0.000	0.000	
50981	1	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	2	3	0.00	0.00	0.000	0.000	
50981	2	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	3	1	0.00	—	0.000	—	
50981	3	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	—	0.000	—	
Littorina spp							
50221	1	3	103.33	103.33	5.213	5.213	
50981	1	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			51.67	51.67	2.607	2.607	
50221	2	3	413.33	233.62	14.867	9.775	
50981	2	3	131.13	42.25	5.172	3.015	
OVERALL MEAN			272.23	141.10	10.020	4.847	
50221	3	1	1390.00	—	48.730	—	
50981	3	3	609.97	149.29	26.946	11.463	
OVERALL MEAN			999.98	—	37.838	—	
Littorina sitkana							
50221	1	3	10.00	10.00	0.513	0.513	
50981	1	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			5.00	5.00	0.257	0.257	
50221	2	3	366.67	236.95	12.027	9.371	
50981	2	3	71.13	35.57	2.436	1.538	
OVERALL MEAN			218.90	147.77	7.231	4.796	
50221	3	1	40.00	—	0.850	—	
50981	3	3	402.20	50.23	18.622	6.046	
OVERALL MEAN			221.10	—	9.736	—	
Littorina scutulata							
50221	1	3	93.33	93.33	4.700	4.700	
50981	1	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			46.67	46.67	2.350	2.350	
50221	1	3	46.67	23.33	2.840	1.361	
50981	2	3	60.00	31.51	2.737	1.723	
OVERALL MEAN			53.33	6.67	2.788	0.052	
50221	3	1	1350.00	—	47.880	—	
50981	3	3	207.77	122.26	8.323	5.418	
OVERALL MEAN			778.88	—	28.102	—	

Table D-64 (cant.) Means of abundance and biomass for organisms from CIK sheltered estuarine oiled site quadrats sampled in 1989 (Sep).

Sites	MVD	N	Abundance (no.m-2)		Biomass (no m-2)		
			Mean	SE	Mean	SE	
<i>Mytilus edulis</i>							
50221	1	3	0.00	0.00	0.000	0.000	
50981	1	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	1	3	233.33	80.90	477.867	192.666	
50981	2	3	58.87	32.78	78.697	67.035	
OVERALL MEAN			146.10	87.23	278.282	199.585	
50221	3	1	450.00	—	504.050	—	
50981	3	3	581.10	310.08	127.229	339.607	
OVERALL MEAN			515.55	—	615.640	—	
<i>Turtonia minuta</i>							
50221	1	3	0.00	0.00	0.000	0.000	
50981	1	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	2	3	3.33	3.33	0.000	0.000	
50981	2	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			1.67	1.67	0.000	0.000	
50221	3	1	0.00	—	0.000	—	
50981	3	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	—	0.000	—	
<i>Pagurus spp.</i>							
50221	1	3	0.00	0.00	0.000	0.000	
50981	1	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	2	3	3.33	3.33	0.197	0.197	
50981	2	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			1.67	1.67	0.098	0.098	
50221	3	1	60.00	—	1.880	—	
50981	3	3	102.23	55.32	5.632	3.893	
OVERALL MEAN			81.12	—	3.756	—	
<i>Nucella spp</i>							
50221	1	3	0.00	0.00	0.000	0.000	
50981	1	3	0.00	0.00	0.000	0.000	
OVERALL MEAN			0.00	0.00	0.000	0.000	
50221	2	3	0.00	0.00	0.000	0.000	
50981	2	—	—	—	—	—	
OVERALL MEAN			0.00	—	0.000	—	
50221	3	1	0.00	—	0.000	—	
50981	3	—	—	—	—	—	
OVERALL MEAN			0.00	—	0.000	—	

Table **D-64** (cont.) Means of abundance and biomass for organisms from CIK sheltered estuarine oiled site quadrats sampled in **1989 (Scp)**.

Once site quadrats sampled in 1988 (Sep).				Abundance (no. m-2)		Biomass (no m-2)	
Sites	MVD	N		Mean	SE	Mean	SE
<i>Nucella lima</i>							
50221	1	3		0.00	0.00	0.000	0.000
50981	1	3		0.00	0.00	0.000	0.000
OVERALL MEAN				0.00	0.00	0.000	0.000
50221	2	3		0.00	0.00	0.000	0.000
50981	2	3		0.00	0.00	0.000	0.000
OVERALL MEAN				0.00	0.00	0.000	0.000
50221	3	1		0.00	—	0.000	—
50981	3	3		0.00	0.00	0.000	0.000
OVERALL MEAN				0.00	—	0.000	—
<i>Nucella lamellosa</i>							
50221	1	3		0.00	0.00	0.000	0.000
50981	1	3		0.00	0.00	0.000	0.000
OVERALL MEAN				0.00	0.00	0.000	0.000
50221	2	3		0.00	0.00	0.000	0.000
50981	2	3		0.00	0.00	0.000	0.000
OVERALL MEAN				0.00	0.00	0.000	0.000
50221	3	1		0.00	—	0.000	—
50981	3	3		0.00	0.00	0.000	0.000
OVERALL MEAN				0.00	—	0.000	—
Amphipoda							
50221	1	3		1150.00	1051.59	2.317	2.096
50981	1	3		264.43	132.90	0.687	0.368
OVERALL MEAN				707.22	442.78	1.502	0.815
50221	2	3		6423.33	3275.06	8.577	4.398
50981	2	3		2463.37	310.61	8.475	1.159
OVERALL MEAN				4443.35	1979.98	8.526	0.051
50221	3	1		2880.00	—	4.010	—
50981	3	3		3523.33	1475.49	7.149	4.349
OVERALL MEAN				3201.67	—	5.579	—
Isopoda							
50221	1	3		3.33	3.33	0.027	0.027
50981	1	3		0.00	0.00	0.000	0.000
OVERALL MEAN				1.67	1.67	0.013	0.013
50221	2	3		243.33	133.71	1.547	0.999
50981	2	—		—	—	—	—
OVERALL MEAN				243.33	—	1.547	—
50221	3	1		490.00	—	2.240	—
50981	3	3		2533.33	1984.38	59.253	54.862
OVERALL MEAN				1511.67	—	30.747	—

Table D-64(cont.) Means of abundance and biomass for organisms from CIK sheltered estuarine ailed site quadrats sampled in 1989 (Sep).

Estuarine and site quadrats sampled in 1989 (Sep)					Biomass (nom-2)	
Sites	MVD	N	Abundance (no. m-2)		Mean	SE
			Mean	SE		
Errant polychaetes						
50221	1	3	0.00	0.00	0.000	0.000
50981	1	3	0.00	0.00	0.000	0.000
OVERALLMEAN			0.00	0.00	0.000	0.000
50221	2	3	0.00	0.00	0.000	0.000
50981	2	3	0.00	0.00	0.000	0.000
OVERALL MEAN			0.00	0.00	0.000	0.000
50221	3	1	240.00	—	0.940	—
50981	3	3	104.43	104.43	0.398	0.398
OVERALLMEAN			172.22	—	0.669	—
Sedentary polychaetes						
50221	1	3	0.00	0.00	0.000	0.000
50981	1	3	0.00	0.00	0.000	0.000
OVERALL MEAN			0.00	0.00	0.000	0.000
50221	2	3	0.00	0.00	0.000	0.000
50981	2	3	0.00	0.00	0.000	0.000
OVERALL MEAN			0.00	0.00	0.000	0.000
50221	3	1	0.00	—	0.000	—
50981	3	3	0.00	0.00	0.000	0.000
OVERALL MEAN			0.00	—	0.000	—
Oligochaeta						
50221	1	3	4570.00	2574.67	3.320	1.958
50981	1	3	12206.67	3786.16	4.929	0.756
OVERALL MEAN			8388.33	3818.33	4.125	0.805
50221	2	3	10330.00	5823.48	4.120	2.442
50981	2	3	13512.23	452.85	7.812	0.739
OVERALLMEAN			11921.12	1591.12	5.966	1.846
50221	3	1	3790.00	—	0.880	—
50981	3	3	10423.33	5974.48	3.946	2.110
OVERALL MEAN			7106.67	—	2.413	—
Total organisms						
50221	1	3	7060.00	2583.53	88.843	80.187
50981	1	3	12914.40	3328.63	8.875	2.769
OVERALLMEAN			9987.20	2927.20	48.859	39.984
50221	2	3	18880.00	8532.06	583.643	168.571
50981	2	3	17898.90	493.77	141.209	86.133
OVERALLMEAN			18389.45	490.55	362426	221.217
50221	3	1	17850.00	—	944.700	—
50981	3	3	22469.87	9552.16	1090.434	501.879
OVERALL MEAN			20159.93	—	1017.367	—

Table D-65. Abundance and biomass data for organisms from PWS exposed rocky quadrats sampled in 1989 (September). MVD=meter vertical drop; N=number of quadrats sampled "Mean "=mean of quadrats; SE=standard error of the mean; "---"=insufficient or no data; and "Overall Means"=mean of site means.

Table D-65 (cont.) Means of abundance and biomass for organisms from PWS exposed rocky oiled site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Lottiidae															
1642C/833	1	3	3	3.33	3.33	10.00	10.00	-	0.5237	0.323	0.323	3.890	3.890	-	0.8275
979	1	-	3	---	---	6.67	6.67	---	---	---	---	0.533	0.533	---	---
OVERALL MEAN				---	---	8.33	1.67			---	---	2.212	1.678		
1642C/833	2	3	2	66.67	56.96	25.00	15.00	+	0.8681	12.613	11.798	4.155	2.695	+	0.4514
979	2	-	3	---	---	6.67	6.67	---	---	---	---	2.820	2.820	---	---
OVERALL MEAN				---	---	15.83	9.17			---	---	3.487	0.667		
1642C/833	3	3	2	63.33	26.03	0.00	0.00	+	0.0356	13.020	5.410	0.000	0.000	+	0.0398
979	3	-	3	---	---	16.67	8.82	---	---	---	---	3.463	2.012	---	---
OVERALL MEAN				---	---	8.33	8.33			---	---	1.732	1.732		
Lottia pelta															
1642C/833	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
1642C/833	2	3	2	53.33	53.33	10.00	10.00	+	0.9346	11.737	11.737	2.185	2.185	+	0.3945
979	2	-	3	---	---	6.67	6.67	---	---	---	---	2.820	2.820	---	---
OVERALL MEAN				---	---	8.33	1.67			---	---	2.503	0.318		
1642C/833	3	3	2	40.00	30.55	0.00	0.00	+	0.0610	7.263	6.112	0.000	0.000	+	0.1892
979	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
Tectura persona															
1642C/833	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	1	-	3	---	---	3.33	3.33	---	---	---	---	0.190	0.190	---	---
OVERALL MEAN				---	---	1.67	1.67			---	---	0.095	0.095		
1642C/833	2	3	2	6.67	6.67	0.00	0.00	+	0.4226	0.550	0.550	0.000	0.000	+	0.4226
979	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
1642C/833	3	3	2	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---

Table D-65 (cont.) Means of abundance and biomass for organisms from PWS exposed rocky oiled site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Tectura scutum</i>															
1642C/833	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
1642C/833	2	3	2	0.00	0.00	10.00	10.00	-	0.5000	0.000	0.000	1.240	1.240	-	0.5000
979	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	5.00	5.00			---	---	0.620	0.620		
1642C/833	3	3	2	23.33	18.56	0.00	0.00	+	0.2568	5.757	5.445	0.000	0.000	+	0.3042
979	3	-	3	---	---	16.67	8.82	---	---	---	---	3.463	2.012	---	---
OVERALL MEAN				---	---	8.33	8.33			---	---	1.732	1.732		
<i>Balanomorpha</i>															
1642C/833	1	3	3	0.00	0.00	1083.33	1083.33		0.2887	0.000	0.000	158.227	158.227	-	0.3126
979	1	-	3	---	---	260.00	250.00	---	---	---	---	32.093	31.485	---	---
OVERALL MEAN				---	---	671.67	411.67			---	---	95.160	63.067		
1642C/833	2	3	2	956.67	936.74	4810.00	3330.00	-	0.1267	73.043	69.190	384.375	4.975	-	0.0286
979	2	-	0	---	---	1080.00	631.30	---	---	---	---	143.807	81.190	---	---
OVERALL MEAN				---	---	2945.00	1865.00			---	---	264.091	120.284		
1642C/833	3	3	2	250.00	175.21	765.00	755.00	-	0.9327	10.500	3.145	4.380	4.300	+	0.2505
979	3	-	0	---	---	3.33	3.33	---	---	---	---	0.017	0.017	---	---
OVERALL MEAN				---	---	384.17	380.83			---	---	2.198	2.182		
<i>Chthamalus dalli</i>															
1642C/833	1	3	3	0.00	0.00	140.00	140.00	-	0.3648	0.000	0.000	1.280	1.280	-	0.3046
979	1	-		---	---	33.33	33.33	---	---	---	---	0.737	0.737	---	---
OVERALL MEAN				---	---	86.67	53.33			---	---	1.008	0.272		
1642C/833	2	3	2	286.67	286.67	2115.00	1395.00	-	0.1482	2.140	2.140	22.280	16.200	-	0.1947
979	2	-		---	---	436.67	426.71	---	---	---	---	9.750	9.595	---	---
OVERALL MEAN				---	---	1275.83	839.17			---	---	16.015	6.265		
1642C/833	3	3	2	0.00	0.00	670.00	670.00	-	0.5000	0.000	0.000	2.615	2.615	-	0.5000
979	3	-		---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	335.00	335.00			---	---	1.308	1.308		

Table D-65 (cont.) Means of abundance and biomass for organisms from PWS exposed rocky oiled site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Balanus glandula</i>															
1642C/833	1	3	3	0.000	0.000	813.333	813.333	-	0.3507	0.000	0.000	155.950	155.950	-	0.3758
979	1	-	3	---	---	206.667	201.687	---	---	---	---	30.050	30.045	---	---
OVERALL MEAN				---	---	510.000	303.333			---	---	93.000	62.950		
1642C/833	2	3	2	603.333	588.397	1840.000	1290.000	-	0.1543	69.757	66.106	182.775	76.995	-	0.3806
979	2	-	3	---	---	403.333	258.607	---	---	---	---	122.117	83.917	---	---
OVERALL MEAN				---	---	1121.667	718.333			---	---	152.446	30.329		
1642C/833	3	3	2	20.000	10.000	15.000	15.000	+	0.4822	2.187	2.012	0.380	0.380	+	0.3805
979	3	-	3	---	---	0.000	0.000	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	7.500	7.500			---	---	0.190	0.190		
<i>Semibalanus balanoides</i>															
1642C/833	1	3	3	0.000	0.000	76.667	76.667	-	0.3221	0.000	0.000	0.820	0.820	-	0.4247
979	1	-	3	---	---	20.000	15.275	---	---	---	---	1.307	0.784	---	---
OVERALL MEAN				---	---	48.333	28.333			---	---	1.063	0.243		
1642C/833	2	3	2	3.333	3.333	765.000	735.000	-	0.1495	0.137	0.137	40.930	40.220	-	0.1727
979	2	-	3	---	---	213.333	213.333	---	---	---	---	9.260	9.260	---	---
OVERALL MEAN				---	---	489.167	275.833			---	---	25.095	15.835		
1642C/833	3	3	2	230.000	165.227	75.000	75.000	+	0.3393	8.313	4.337	1.345	1.345	+	0.1034
979	3	-	3	---	---	0.000	0.000	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	37.500	37.500			---	---	0.673	0.673		
<i>Lacuna spp.</i>															
1642C/833	1	3	3	0.000	0.000	0.000	0.000	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	1	-	3	---	---	0.000	0.000	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.000	0.000			---	---	0.000	0.000		
1642C/833	2	3	2	0.000	0.000	0.000	0.000	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	2	-	3	---	---	0.000	0.000	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.000	0.000			---	---	0.000	0.000		
1642C/833	3	3	2	0.000	0.000	0.000	0.000	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	3	-	3	---	---	0.000	0.000	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.000	0.000			---	---	0.000	0.000		

Table D-65(cont.) Means of abundance and biomass for organisms from PWS exposed rocky oiled site quadrats sampled in 1989 (Sep).

Site Pair	MVD		No	no. m-2						g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Littorina spp.</i>															
1642C/833	1	3	3	163.33	95.28	496.67	452.41	-	0.4055	9.763	5.468	5.703	5.475	+	0.7972
979	1	-	3	---	---	560.00	192.96	---	---	---	---	36.427	14.272	---	---
OVERALL MEAN				---	---	528.33	31.67			---	---	21.065	15.362		
1642C/833	2	3	2	3816.67	1782.34	705.00	495.00	+	0.1079	217.463	114.390	6.550	4.120	+	0.0712
979	2	-	3	---	---	1153.33	606.01	---	---	---	---	40.003	18.682	---	---
OVERALL MEAN				---	---	929.17	224.17			---	---	23.277	16.727		
1642C/833	3	3	2	1776.67	1472.94	10.00	0.00	+	0.4198	28.547	16.999	0.050	0.030	+	0.0877
979	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	5.00	5.00			---	---	0.025	0.025		
<i>Littorina sitkana</i>															
1642C/833	1	3	3	160.00	95.39	330.00	286.18	-	0.5433	9.743	5.466	4.117	3.889	+	0.7264
979	1	-	3	---	---	366.67	161.90	---	---	---	---	30.183	14.781	---	---
OVERALL MEAN				---	---	348.33	18.33			---	---	17.150	13.033		
1642C/833	2	3	2	3576.67	1651.27	240.00	100.00	+	0.2268	214.560	112.542	1.505	1.365	+	0.0681
979	2	-	3	---	---	523.33	258.87	---	---	---	---	26.793	22.586	---	---
OVERALL MEAN				---	---	381.67	141.67			---	---	14.149	12.644		
1642C/833	3	3	2	826.67	570.07	5.00	5.00	+	0.1319	15.937	8.018	0.010	0.010	+	0.3303
979	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	2.50	2.50			---	---	0.005	0.005		
<i>Littorina scutulata</i>															
1642C/833	1	3	3	3.33	3.33	166.67	166.67	-	0.5972	0.020	0.020	1.587	1.587	-	0.3725
979	1	-	3	---	---	193.33	51.75	---	---	---	---	6.243	1.221	---	---
OVERALL MEAN				---	---	180.00	13.33			---	---	3.915	2.328		
1642C/833	2	3	2	240.00	173.49	465.00	395.00	-	0.7386	2.903	1.950	5.045	2.755	-	0.8603
979	2	-	3	---	---	630.00	502.69	---	---	---	---	13.210	9.654	---	---
OVERALL MEAN				---	---	547.50	82.50			---	---	9.127	4.082		
1642C/833	3	3	2	950.00	915.22	5.00	5.00	+	0.1996	12.610	11.927	0.040	0.040	+	0.2312
979	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	2.50	2.50			---	---	0.020	0.020		

Table D-65 (cont.) Means of abundance and biomass for organisms from PWS exposed rocky oiled site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						D	P-Value	Biomass g m-2			
				C	SE	O	SE	C	SE			O	SE		
<i>Mytilus edulis</i>															
1642C/833	1	3	3	13.33	13.33	4860.00	4860.00	-	0.5344			1.693	1.693	731.183	731.183
979	1	-	3	---	---	146.67	78.81	---	---			---	---	76.453	50.721
OVERALL MEAN				---	---	2503.33	2356.67					---	---	403.818	327.365
1642C/833	2	3	2	786.67	494.31	6055.00	6045.00	-	0.9201			518.583	497.946	3610.946	3610.776
979	2	-	3	---	---	490.00	320.00	---	---			---	---	270.437	30.451
OVERALL MEAN				---	---	3272.50	2782.50					---	---	1940.691	1670.254
1642C/833	3	3	2	1230.00	618.57	0.00	0.00	+	0.1081			533.317	266.706	0.000	0.000
979	3	-	3	---	---	420.00	347.71	---	---			---	---	0.730	0.710
OVERALL MEAN				---	---	210.00	210.00					---	---	0.365	0.365
<i>Turtonia minuta</i>															
1642C/833	1	3	3	0.00	0.00	0.00	0.00	=	1.0000			0.000	0.000	0.000	0.000
979	1	-	3	---	---	0.00	0.00	---	---			---	---	0.000	0.000
OVERALL MEAN				---	---	0.00	0.00					---	---	0.000	0.000
1642C/833	2	3	2	13.33	13.33	0.00	0.00	+	0.4226			0.013	0.013	0.000	0.000
979	2	-	3	---	---	0.00	0.00	---	---			---	---	0.000	0.000
OVERALL MEAN				---	---	0.00	0.00					---	---	0.000	0.000
1642C/833	3	3	2	250.00	225.46	30.00	30.00	+	0.4565			0.220	0.196	0.045	0.045
979	3	-	3	---	---	226.67	170.23	---	---			---	---	0.070	0.051
OVERALL MEAN				---	---	128.33	98.33					---	---	0.058	0.013
<i>Pagurus spp.</i>															
1642C/833	1	3	3	0.00	0.00	0.00	0.00	=	1.0000			0.000	0.000	0.000	0.000
979	1	-	3	---	---	0.00	0.00	---	---			---	---	0.000	0.000
OVERALL MEAN				---	---	0.00	0.00					---	---	0.000	0.000
1642C/833	2	3	2	133.33	113.92	10.00	10.00	+	0.4472			8.437	7.555	0.450	0.450
979	2	-	3	---	---	16.67	8.82	---	---			---	---	1.720	1.249
OVERALL MEAN				---	---	13.33	3.33					---	---	1.085	0.635
1642C/833	3	3	2	110.00	90.74	15.00	15.00	+	0.3780			1.820	0.923	2.220	2.220
979	3	-	3	---	---	123.33	54.57	---	---			---	---	10.473	3.170
OVERALL MEAN				---	---	69.17	54.17					---	---	6.347	4.127

Table D-65 (cont.) Means of abundance and biomass for organisms from PWS exposed rocky oiled site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
<i>Nucella spp.</i>															
1642C/833	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
1642C/833	2	3	2	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
1642C/833	3	3	2	13.33	8.82	20.00	20.00	-	0.9664	19.883	13.727	36.980	36.980	-	0.8623
979	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	10.00	10.00			---	---	18.490	18.490		
<i>Nucella lima</i>															
1642C/833	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
1642C/833	2	3	2	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
1642C/833	3	3	2	3.33	3.33	0.00	0.00	+	0.4226	4.477	4.477	0.000	0.000	+	0.4226
979	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
<i>Nucella lamellosa</i>															
1642C/833	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
1642C/833	2	3	2	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
1642C/833	3	3	2	10.00	10.00	20.00	20.00	-	0.7483	15.407	15.407	36.980	36.980	-	0.7665
979	3	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	10.00	10.00			---	---	18.490	18.490		

Table D-65 (cont.) Means of abundance and biomass for organisms from PWS exposed rocky oiled site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass gm-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Amphipoda															
1642C/833	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
1642C/833	2	3	2	130.00	100.66	45.00	45.00	+	0.3715	0.593	0.355	0.300	0.135	+	0.3511
979	2	-	3	---	---	16.67	12.02	---	---	---	---	0.090	0.285	---	---
OVERALL MEAN				---	---	30.83	14.17			---	---	0.100	0.077		
1642C/833	3	3	2	770.00	680.00	120.00	120.00	+	0.4293	2.690	2.182	0.900	0.295	+	0.3195
979	3	-	3	---	---	1066.67	432.10	---	---	---	---	2.000	1.050	---	---
OVERALL MEAN				---	---	593.33	473.33			---	---	1.000	1.106		
Isopoda															
1642C/833	1	3	3	0.00	0.00	3.33	3.33	-	0.4379	0.000	0.000	0.000	0.000	=	1.0000
979	1	-	3	---	---	6.67	3.33	---	---	---	---	0.010	0.010	---	---
OVERALL MEAN				---	---	5.00	1.67			---	---	0.000	0.005		
1642C/833	2	3	2	26.67	21.86	15.00	15.00	+	0.5829	4.247	4.247	0.010	0.015	+	0.7349
979	2	-	3	---	---	3.33	3.33	---	---	---	---	0.600	0.560	---	---
OVERALL MEAN				---	---	9.17	5.83			---	---	0.080	0.273		
1642C/833	3	3	2	76.67	66.92	10.00	10.00	+	0.7631	1.627	1.627	0.020	0.020	+	0.7070
979	3	-	3	---	---	256.67	171.50	---	---	---	---	3.000	3.234	---	---
OVERALL MEAN				---	---	133.33	123.33			---	---	1.000	1.848		
Errant polychaetes															
1642C/833	1	3	3	0.00	0.00	10.00	10.00	0	0.4226	0.000	0.000	0.000	0.010	0	0.4226
979	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	5.00	5.00			---	---	0.000	0.005		
1642C/833	2	3	2	16.67	8.82	100.00	90.00	-	0.4330	0.003	0.003	0.000	0.095	-	0.3897
979	2	-	3	---	---	20.00	20.00	---	---	---	---	0.010	0.010	---	---
OVERALL MEAN				---	---	60.00	40.00			---	---	0.000	0.042		
1642C/833	3	3	2	420.00	254.82	90.00	50.00	+	0.2997	0.233	0.136	0.200	0.105	+	0.7391
979	3	-	3	---	---	220.00	167.03	---	---	---	---	0.000	0.239	---	---
OVERALL MEAN				---	---	155.00	65.00			---	---	0.000	0.106		

Table D-65 (cont.) Means of abundance and biomass for organisms from PWS exposed rocky oiled site quadrats sampled in 1989 (Sep).

Site Pair	MVD	Nc	No	Abundance no. m-2						Biomass g m-2					
				C	SE	O	SE	D	P-Value	C	SE	O	SE	D	P-Value
Sedentary polychaetes															
1642C/833	1	3	3	0.00	0.00	0.00	0.00	=	1.0000	0.000	0.000	0.000	0.000	=	1.0000
979	1	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	0.00	0.00			---	---	0.000	0.000		
1642C/833	2	3	2	0.00	0.00	235.00	235.00	-	0.5000	0.000	0.000	0.270	0.270	-	0.5000
979	2	-	3	---	---	0.00	0.00	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	117.50	117.50			---	---	0.135	0.135		
1642C/833	3	3	2	23.33	23.33	0.00	0.00	+	0.9846	0.000	0.000	0.000	0.000	=	1.0000
979	3	-	3	---	---	1023.33	978.68	---	---	---	---	1.503	1.429	---	---
OVERALL MEAN				---	---	511.67	511.67			---	---	0.752	0.752		
Oligochaeta															
1642C/833	1	3	3	830.00	830.00	720.00	720.00	+	0.9868	0.883	0.883	0.163	0.163	+	0.8746
979	1	-	3	---	---	6.67	6.67	---	---	---	---	0.000	0.000	---	---
OVERALL MEAN				---	---	363.33	356.67			---	---	0.082	0.082		
1642C/833	2	3	2	2180.00	2025.35	745.00	745.00	+	0.3242	2.247	2.232	0.120	0.120	+	0.6572
979	2	-	3	---	---	13.33	8.82	---	---	---	---	0.010	0.010	---	---
OVERALL MEAN				---	---	379.17	365.83			---	---	0.065	0.055		
1642C/833	3	3	2	1373.33	782.52	60.00	60.00	+	0.0982	0.827	0.525	0.010	0.010	+	0.1175
979	3	-	3	---	---	276.67	158.78	---	---	---	---	0.113	0.094	---	---
OVERALL MEAN				---	---	168.33	108.33			---	---	0.062	0.052		
Total organisms															
1642C/833	1	3	3	1110.00	1031.04	7973.33	7928.38	-	0.8626	12.813	8.191	900.177	899.947	-	0.9034
979	1	-	3	---	---	996.67	474.00	---	---	---	---	145.933	57.592	---	---
OVERALL MEAN				---	---	4485.00	3488.33			---	---	523.055	377.122		
1642C/833	2	3	2	8693.33	937.11	14190.00	4690.00	-	0.4110	840.640	597.184	4016.541	3624.590	-	0.2245
979	2	-	3	---	---	2806.67	944.04	---	---	---	---	459.680	103.103	---	---
OVERALL MEAN				---	---	8498.33	5691.67			---	---	2238.110	1778.430		
1642C/833	3	3	2	6900.00	3908.57	2515.00	635.00	+	0.4327	616.403	292.004	51.240	40.530	+	0.1676
979	3	-	3	---	---	7276.67	3423.43	---	---	---	---	296.067	226.799	---	---
OVERALL MEAN				---	---	4895.83	2380.83			---	---	173.653	122.413		

Table D-66. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	118.333	41.265	4	72.500	38.161	-	0.3660	6	9.517	2.587	4	7.157	4.104	-	0.6203		
453C/453	1	5	48.000	29.563	6	23.333	11.738	-	0.6132	5	7.464	4.014	6	2.890	1.397	-	0.3080		
601C/601	1	6	61.667	23.582	6	30.000	11.547	-	0.8958	6	5.732	2.214	6	1.573	0.583	-	0.3308		
598C/598	1	6	36.667	12.019	6	46.667	31.376	-	0.3664	6	2.713	0.911	6	5.327	3.557	-	0.5398		
1522C/1522	1	5	150.000	79.436	6	50.000	14.142	-	0.3714	5	12.120	7.293	6	3.523	1.418	-	0.0588		
Habitat Means			82.933	37.173		44.500	21.393	-			7.509	3.404		4.094	2.212	-			
Fisher's		Power	0.001		Power-50%	0.045	P-value	0.3468		Power	---		Power-50%	---	P-value	0.0667			
Stouffer's		Power	0.001		Power-50%	0.282	P-value	0.5366		Power	0.004		Power-50%	0.286	P-value	0.2262			
4825C/1424	2	4	45.000	17.078	6	106.667	53.333	-	0.5243	4	2.717	1.186	6	11.067	7.851	-	0.2731		
453C/453	2	5	90.000	16.432	6	88.333	37.006	-	0.9853	5	19.014	2.777	6	10.420	2.550	-	0.2298		
601C/601	2	6	251.667	120.897	6	221.667	92.247	-	0.7287	6	16.715	7.925	6	7.818	3.297	-	0.1929		
598C/598	2	6	158.333	59.521	6	50.000	17.701	-	0.2140	6	7.640	3.329	6	6.690	3.995	-	0.8884		
1522C/1522	2	6	166.667	29.515	4	112.500	46.971	-	0.5758	6	10.482	2.589	4	13.075	7.522	-	0.7320		
Habitat Means			142.333	48.689		115.833	49.452	-			11.314	3.561		9.814	5.043	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.3573		Power	0.001		Power-50%	0.000	P-value	0.2964			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1395		Power	0.000		Power-50%	0.000	P-value	0.2050			
4825C/1424	3	4	90.000	33.166	6	28.000	15.864	-	0.2614	4	0.467	0.189	6	0.313	0.187	-	0.4938		
453C/453	3	6	131.667	52.052	3	56.667	42.557	-	0.4798	6	9.838	4.529	3	8.303	3.489	-	0.8112		
601C/601	3	5	58.000	38.910	6	65.000	33.441	-	0.9771	5	1.226	0.847	6	2.335	0.915	-	0.9786		
598C/598	3	2	145.000	145.000	6	263.333	249.448	-	0.9493	2	7.060	7.060	6	2.160	1.511	-	0.9889		
1522C/1522	3	5	138.000	85.988	1	90.000	--	-	----	5	2.188	1.274	1	2.570	--	-	----		
Habitat Means			112.533	71.023		100.000	85.328	-			4.156	2.780		5.142	4.026	-			
Fisher's		Power	0.087		Power-50%	0.147	P-value	0.2978		Power	0.084		Power-50%	0.129	P-value	0.5752			
Stouffer's		Power	0.146		Power-50%	0.244	P-value	0.3137		Power	0.129		Power-50%	0.223	P-value	0.5018			

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

Table D-66, Page 11, December 21, 1993

Lottia pelta - abundance (#/m ²)										Lottia Pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	18.333	10.462	4	42.500	23.936	-	0.5300	6	3.227	1.828	4	5.250	3.328	-	0.9801		
453C/453	1	5	2.000	2.000	6	6.667	4.944	-	0.5545	5	1.254	1.254	6	0.890	0.608	-	0.6961		
601C/601	1	6	11.667	4.773	6	5.000	5.000	+	0.1043	6	1.957	1.024	6	0.363	0.363	-	0.0786		
598C/598	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.105	0.105	6	0.235	0.235	-	0.9491		
1522C/1522	1	5	4.000	2.449	6	5.000	3.416	-	0.9500	5	0.964	0.700	6	0.450	0.296	-	0.7627		
Habitat Means			7.533	4.270		12.167	7.793	-			1.501	0.982		1.438	0.966	-			
Fisher's		Power	0.451		Power-50%	0.782	P-value	0.6089		Power	0.037		Power-50%	0.466	P-value	0.2156			
Stouffer's		Power	0.198		Power-50%	0.799	P-value	0.4851		Power	0.015		Power-50%	0.491	P-value	0.2664			
4825C/1424	2	4	15.000	8.660	6	76.667	45.947	-	0.0833	4	1.795	1.010	6	7.175	4.607	-	0.3242		
453C/453	2	5	58.000	17.146	6	25.000	5.627	-	0.3177	5	14.716	2.664	6	5.817	2.068	-	0.0856		
601C/601	2	6	58.333	19.108	6	11.667	9.804	-	0.1410	6	10.712	6.181	6	2.617	2.368	-	0.1009		
598C/598	2	6	16.667	16.667	6	11.667	7.491	-	0.8732	6	2.703	2.703	6	4.248	2.961	-	0.2504		
1522C/1522	2	6	8.333	4.014	4	30.000	7.071	-	0.5369	6	1.032	0.531	4	8.030	5.365	-	0.2014		
Habitat Means			31.267	17.119		31.000	15.188	-			6.194	2.658		5.581	3.474	-			
Fisher's		Power	0.180		Power-50%	0.386	P-value	0.3308x		Power	0.025		Power-50%	0.241	P-value	0.4076x			
Stouffer's		Power	0.169		Power-50%	0.408	P-value	0.2658		Power	0.013		Power-50%	0.269	P-value	0.7398			
4825C/1424	3	4	0.000	0.000	6	1.667	1.667	-	0.3632	4	0.000	0.000	6	0.142	0.142	-	0.3632		
453C/453	3	6	45.000	25.397	3	10.000	5.774	+	0.6303	6	7.610	4.510	3	1.340	0.998	-	0.7693		
601C/601	3	5	2.000	2.000	6	11.667	6.540	-	0.2698	5	0.104	0.104	6	1.562	0.916	-	0.2784		
598C/598	3	2	15.000	15.000	6	3.333	2.108	-	0.4830	2	3.940	3.940	6	0.540	0.451	-	0.5602		
1522C/1522	3	5	2.000	2.000	1	0.000	--	+	----	5	0.122	0.122	1	0.000	--	-	----		
Habitat Means			12.800	8.879		5.333	4.022	-			2.355	1.735		0.717	0.627	-			
Fisher's		Power	0.321		Power-50%	0.228	P-value	0.3657 y		Power	0.189		Power-50%	0.215	P-value	0.3436			
Stouffer's		Power	0.090		Power-50%	0.377	P-value	0.6653		Power	0.062		Power-50%	0.370	P-value	0.5930			

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

Table D-66. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1990. (Continued.)

Tectura persona - abundance (#/m ²)										Tectura persona - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	28.533	7.491	4	0.000	0.000	+	0.0047	6	2.847	0.884	4	0.000	0.000	+	0.0044		
453C/453	1	5	38.000	24.166	6	6.667	4.944	+	0.2633	5	5.396	3.544	6	1.145	0.918	-	0.3541		
601C/601	1	6	33.333	15.846	6	10.000	5.164	+	0.3878	6	2.708	1.100	6	0.698	0.397	-	0.4351		
598C/598	1	6	26.667	11.450	6	36.667	24.449	-	0.5445	6	2.263	0.992	6	4.867	3.197	-	0.4334		
1522C/1522	1	5	90.000	50.990	6	25.000	12.042	-	0.1292	5	8.518	5.303	6	2.485	1.513	-	0.1549		
Habitat Means			43.267	21.989		15.667	9.320	+			4.346	2.365		1.839	1.205	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0044	Power	---		Power-50%	---		P-value	0.0067		
Stouffer's		Power	0.000		Power-50%	0.644		P-value	0.1513	Power	0.001		Power-50%	0.640		P-value	0.2251		
4825C/1424	2	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	2	5	6.000	6.000	6	8.333	4.773	-	0.4823	5	0.644	0.644	6	0.673	0.402	-	0.4261		
601C/601	2	6	0.000	0.000	6	20.000	18.074	-	0.2018	6	0.000	0.000	6	1.172	1.006	-	0.1789		
598C/598	2	6	13.333	6.146	6	20.000	12.910	-	0.6142	6	0.765	0.308	6	1.808	1.252	-	0.4590		
1522C/1522	2	6	40.000	18.074	4	12.500	9.465	-	0.6529	6	2.600	1.164	4	2.675	2.397	-	0.9260		
Habitat Means			11.867	6.044		12.167	9.044	-			0.802	0.423		1.266	1.011	-			
Fisher's		Power	0.147		Power-50%	0.436		P-value	0.2871	Power	0.166		Power-50%	0.544		P-value	0.1828		
Stouffer's		Power	0.093		Power-50%	0.707		P-value	0.1671	Power	---		Power-50%	---		P-value	0.0922		
4825C/1424	3	4	0.000	0.000	6	0.000	3.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	3	6	0.000	0.000	3	0.000	3.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000		
601C/601	3	5	0.000	0.000	6	0.000	3.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
598C/598	3	2	0.000	0.000	6	0.000	3.000	o	1.0000	2	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	3	5	0.000	0.000	1	0.000	---	o	1.0000	5	0.000	0.000	1	0.000	---	o	1.0000		
Habitat Means			0.000	0.000		0.000	3.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---		P-value	0.7319	Power	-		Power-50%	---		P-value	0.7319		
Stouffer's		Power	---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000		

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

Table D-66. Page 10. Sheltered Rocky, May 1990

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

Table D-66. Invertebrate Abundance and Biomass. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Balanomorphs - abundance (#/m ²)										Balanomorphs - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	616.667	215.757	4	452.500	351.079	+	0.4029	6	11.025	4.429	4	3.318	2.659	+	0.1554
453C/453	1	5	3182.000	3033.110	6	398.333	256.975	+	0.8807	5	37.592	34.154	6	25.297	21.051	+	0.7691
601C/601	1	6	3525.000	1474.609	6	1438.333	582.383	+	0.4547	6	387.925	183.349	6	55.568	17.897	+	0.1163
598C/598	1	6	1313.333	561.175	6	3900.000	1859.923	-	0.2531	6	68.570	26.514	6	150.713	70.629	-	0.5072
1522C/1522	1	5	6470.000	2836.944	6	7500.000	2727.364	-	0.9536	5	341.180	141.430	6	253.582	86.486	-	0.6365
Habitat Means			3021.400	1624.319		2737.833	1155.545				169.258	77.975		97.696	39.744		
Fisher's	Power		0.000		Power-50%	0.001	P-value	0.4971		Power	0.000		Power-50%	0.000	P-value	0.1121	
Stouffer's	Power		0.022		Power-50%	0.084	P-value	0.7022		Power	0.017		Power-50%	0.073	P-value	0.3822	
4825C/1424	2	4	147.500	88.070	6	1428.333	1374.456	-	0.5129	4	22.767	13.175	6	8.363	6.207	+	0.7480
453C/453	2	5	3452.000	1491.682	6	191.667	91.485	+	0.0429	5	62.814	32.024	6	2.185	1.022	+	0.0292
601C/601	2	6	3880.000	2734.806	6	2658.333	420.551	+	0.2417	6	428.387	232.679	6	267.108	86.242	+	0.3346
598C/598	2	6	3406.667	1065.172	6	4593.333	1077.740	-	0.3687	6	385.859	132.767	6	124.783	23.992	+	0.1029
1522C/1522	2	6	3991.667	1834.968	4	6742.500	3544.795	-	0.9818	6	231.673	114.984	4	79.240	42.594	+	0.2958
Habitat Means			2975.567	1442.940		3122.833	1301.805				226.300	105.126		96.336	32.011		
Fisher's	Power		0.000		Power-50%	0.002	P-value	0.6457x		Power	---		Power-50%	---	P-value	0.0083	
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.7095		Power	---		Power-50%	---	P-value	0.0018	
4825C/1424	3	4	230.000	230.000	6	133.333	101.969	+	0.3581	4	5.900	5.900	6	0.249	0.202	+	0.7794
453C/453	3	6	1543.333	1158.369	3	13.333	3.333	-	0.3004	6	219.625	124.366	3	0.407	0.217	-	0.4181
601C/601	3	5	712.000	411.381	6	3720.000	2964.654	-	0.5180	5	118.848	102.470	6	160.947	124.378	-	0.5392
598C/598	3	2	885.000	875.000	6	5248.333	1422.410	-	0.0471	2	61.965	60.785	6	259.282	65.789	-	0.0713
1522C/1522	3	5	2886.000	1271.706	1	20.000	---	+	----	5	290.240	148.753	1	0.050	---	-	----
Habitat Means			1261.267	789.291		1827.000	1123.092				139.316	88.455		84.187	47.647		
Fisher's	Power		0.000		Power-50%	0.004	P-value	0.2063		Power	0.000		Power-50%	0.001	P-value	0.2165 y	
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.1499		Power	0.000		Power-50%	0.000	P-value	0.1361	

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

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

z Only one site pair.

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	246.667	154.438	4	117.500	51.377	+	0.5377	6	0.797	0.486	4	0.450	0.234	+	0.5798
453C/453	1	5	1072.000	1057.026	6	88.333	46.074	+	0.9851	5	5.670	5.486	6	0.723	0.388	-	0.9745
601C/601	1	6	70.000	52.915	6	406.667	268.572	-	0.5571	6	0.337	0.273	6	1.565	0.847	-	0.6273
598C/598	1	6	13.333	13.333	6	585.000	369.312	-	0.1480	6	0.148	0.148	6	2.875	1.902	-	0.1637
1522C/1522	1	5	70.000	47.958	6	453.333	264.079	-	0.3751	5	0.300	0.196	6	3.998	2.252	-	0.2377
Habitat Means			294.400	265.134		330.167	199.883				1.450	1.318		1.922	1.125		
Fisher's	Power		0.008		Power-50%	0.196	P-value	0.2185		Power	0.007		Power-50%	0.221	P-value	0.1918	
Stouffer's	Power		---		Power-50%	0.291	P-value	0.0888		Power	---		Power-50%	---	P-value	0.0893	
4825C/1424	2	4	0.000	0.000	6	1360.000	1336.054	-	0.0626	4	0.000	0.000	6	6.532	6.446	-	0.0731
453C/453	2	5	896.000	748.589	6	148.333	85.378	+	0.4311	5	3.124	2.457	6	1.157	0.666	+	0.5588
601C/601	2	6	56.667	52.705	6	186.667	145.595	-	0.8657	6	0.233	0.212	6	0.832	0.718	-	0.9728
598C/598	2	6	0.000	0.000	6	330.000	146.333	-	0.0348	6	0.000	0.000	6	2.425	1.164	-	0.0307
1522C/1522	2	6	235.000	221.295	4	1110.000	796.921	-	0.0319	6	0.898	0.819	4	5.372	2.934	-	0.0234
Habitat Means			237.533	204.518		627.000	502.056				0.851	0.698		3.264	2.386		
Fisher's	Power		---		Power-50%	---	P-value	0.0045		Power	---		Power-50%	---	P-value	0.0038	
Stouffer's	Power		---		Power-50%	0.001	P-value	0.0247		Power	---		Power-50%	---	P-value	0.0180	
4825C/1424	3	4	0.000	0.000	6	126.667	101.149	-	0.0132	4	0.000	0.000	6	0.215	0.169	-	0.0356
453C/453	3	6	723.333	631.203	3	3.333	3.333	+	0.1859	6	3.348	2.648	3	0.013	0.013	+	0.1963
601C/601	3	5	4.000	4.000	6	18.333	18.333	-	0.8677	5	0.018	0.018	6	0.062	0.062	-	0.9522
598C/598	3	2	0.000	0.000	6	93.333	93.333	-	0.3632	2	0.000	0.000	6	0.223	0.223	-	0.3632
1522C/1522	3	5	160.000	134.201	1	20.000	---	+	----	5	0.616	0.386	1	0.050	---	-	----
Habitat Means			177.467	153.881		52.333	54.037				0.796	0.610		0.113	0.117		
Fisher's	Power		---		Power-50%	---	P-value	0.0532 y		Power	0.159		Power-50%	0.033	P-value	0.1065 y	
Stouffer's	Power		0.235		Power-50%	0.000	P-value	0.3463		Power	0.182		Power-50%	0.001	P-value	0.3695	

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

Table D-66, Page 5 December 21, 1994

Table D-66, Page 6 December 21, 1994

Table D-66. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1990. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	93.333	37.830	4	22.500	22.500	+	0.0482	6	2.548	0.970	4	0.132	0.132	-	0.0119		
453C/453	1	5	138.000	91.016	6	56.667	21.705	+	0.8929	5	2.764	1.372	6	3.415	2.002	-	0.8380		
601C/601	1	6	160.000	71.040	6	18.333	6.009	+	0.2408	6	13.663	7.060	6	0.483	0.249	-	0.0944		
598C/598	1	6	35.000	17.464	6	196.667	93.440	-	0.2147	6	2.175	1.433	6	4.427	1.820	-	0.3994		
1522C/1522	1	5	116.000	49.356	6	158.333	64.053	-	0.9094	5	3.394	1.697	6	19.483	14.962	-	0.8031		
Habitat Means			108.467	53.341		90.500	41.541	+			4.909	2.506		5.588	3.833	-			
Fisher's		Power	0.005		Power-50%	0.021	P-value	0.1419		Power	0.006		Power-50%	0.022	P-value	0.7353x			
Stouffer's		Power	0.057		Power-50%	0.343	P-value	0.6442		Power	0.012		Power-50%	0.344	P-value	0.4691			
4825C/1424	2	4	40.000	28.284	6	8.333	4.773	+	0.4918	4	5.145	3.776	6	0.887	0.592	-	0.7362		
453C/453	2	5	74.000	27.129	6	13.333	8.819	+	0.0295	5	2.238	1.099	6	0.228	0.152	-	0.0983		
601C/601	2	6	248.333	124.964	6	70.000	23.381	+	0.3694	6	25.928	14.741	6	2.840	1.125	-	0.1768		
598C/598	2	6	101.667	51.213	6	103.333	24.449	-	0.6395	6	4.768	2.324	6	2.125	0.611	-	0.7684		
1522C/1522	2	6	141.667	70.210	4	25.000	9.574	+	0.3865	6	6.685	4.613	4	0.500	0.192	-	0.5155		
Habitat Means			121.133	60.360		44.000	14.199	+			8.953	5.311		1.316	0.534	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0446		Power	---		Power-50%	---	P-value	0.0640			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1012		Power	---		Power-50%	---	P-value	0.0548			
4825C/1424	3	4	17.500	17.500	6	1.667	1.667	-	0.5157	4	3.715	3.715	6	0.033	0.033	-	0.5092		
453C/453	3	6	28.333	24.552	3	6.667	6.667	-	0.8281	6	1.527	1.384	3	0.263	0.263	-	0.8970		
601C/601	3	5	84.000	38.158	6	8.333	5.426	-	0.1953	5	4.760	2.328	6	0.245	0.161	-	0.2398		
598C/598	3	2	25.000	25.000	6	140.000	77.158	-	0.3894	2	0.515	0.515	6	22.857	20.170	-	0.3630		
1522C/1522	3	5	82.000	52.192	1	0.000	---	-	---	5	4.666	2.857	1	0.000	---	-	---		
Habitat Means			47.367	31.480		31.333	22.730	-			3.037	2.160		4.680	5.157	-			
Fisher's		Power	0.446		Power-50%	0.446	P-value	0.2973		Power	0.420		Power-50%	0.398	P-value	0.3438x			
Stouffer's		Power	0.223		Power-50%	0.389	P-value	0.5662		Power	0.168		Power-50%	0.354	P-value	0.6103			

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	193.333	103.494	4	277.500	270.874	-	0.5484	6	7.363	4.392	4	2.678	2.546	-	0.5359		
453C/453	1	5	1856.000	1781.790	6	236.667	212.833	+	0.9051	5	28.588	27.056	6	20.825	18.964	-	0.6773		
601C/601	1	6	2945.000	1314.414	6	860.000	310.720	+	0.5031	6	368.695	174.517	6	53.057	17.501	-	0.1393		
598C/598	1	6	1141.667	471.285	6	2856.667	1347.058	-	0.3280	6	64.797	24.551	6	139.060	66.838	-	0.5156		
1522C/1522	1	5	5878.000	2657.420	6	6195.000	2130.484	-	0.9896	5	334.324	140.094	6	224.338	71.304	-	0.5814		
Habitat Means			2402.800	1265.681		2085.167	854.394	-			160.753	74.122		87.992	35.431	-			
Fisher's		Power	0.000		Power-50%	0.020	P-value	0.4950		Power	0.004		Power-50%	0.020	P-value	0.2130			
Stouffer's		Power	0.001		Power-50%	0.249	P-value	0.2652		Power	0.084		Power-50%	0.245	P-value	0.3980			
4825C/1424	2	4	107.500	73.186	6	15.000	9.574	+	0.5150	4	17.622	10.276	6	0.883	0.777	-	0.5089		
453C/453	2	5	2114.000	1326.460	6	13.333	9.545	+	0.1290	5	52.898	32.947	6	0.592	0.493	-	0.2707		
601C/601	2	6	2896.667	1957.505	6	2275.000	424.867	+	0.1962	6	382.622	205.211	6	258.907	83.836	-	0.2903		
598C/598	2	6	3075.000	998.958	6	3791.667	964.474	-	0.5010	6	373.348	129.835	6	116.430	24.434	-	0.1049		
1522C/1522	2	6	2781.667	1561.011	4	3967.500	2721.560	-	0.7711	6	213.705	112.880	4	66.702	39.725	-	0.2970		
Habitat Means			2194.967	1183.424		2012.500	826.004	+			208.039	98.230		88.703	29.853	-			
Fisher's		Power	0.038		Power-50%	0.010	P-value	0.1559		Power	---		Power-50%	---	P-value	0.0265			
Stouffer's		Power	0.002		Power-50%	0.002	P-value	0.2702		Power	---		Power-50%	---	P-value	0.0083			
4825C/1424	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	3	6	431.667	425.679	3	3.333	3.333	-	0.4824	6	46.458	46.344	3	0.130	0.130	-	0.5699		
601C/601	3	5	434.000	275.020	6	3175.000	2897.602	-	0.4609	5	87.794	75.855	6	149.815	125.638	-	0.5532		
598C/598	3	2	800.000	800.000	6	4551.667	1360.016	-	0.4400	2	60.430	60.430	6	218.808	59.310	-	0.4820		
1522C/1522	3	5	2186.000	959.383	1	0.000	---	+	---	5	240.722	114.596	1	0.000	---	-	---		
Habitat Means			770.333	492.016		1546.000	1065.238	-			87.081	59.445		73.751	46.270	-			
Fisher's		Power	0.001		Power-50%	0.084	P-value	0.4431		Power	0.001		Power-50%	0.065	P-value	0.4865			
Stouffer's		Power	0.000		Power-50%	0.219	P-value	0.3423		Power	0.000		Power-50%	0.208	P-value	0.3482			

x At least one site pair shows a significant difference between habitats.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-66, Page 2, November 21, 1991

Table D-66. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1990. (Continued.)

Lacuna spp. - abundance (#/m ²)										Lacuna spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
453C/453	1	5	0.000	0.000	6	1.667	1.667	-	0.3632	5	0.000	0.000	6	0.001	0.001	-	0.3632		
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.333	0.333	-			0.000	0.000		0.000	0.000	-			
Fisher's	Power		---		Power-50%	---		P-value	0.5362	Power	---		Power-50%	---		P-value	0.5362		
Stouffer's	Power		---		Power-50%	---		P-value	0.3148	Power	---		Power-50%	---		P-value	0.3148		
4825C/1424	2	4	0.000	0.000	6	3.333	3.333		0.3632	4	0.000	0.000	6	0.015	0.015		0.3632		
453C/453	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
601C/601	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
598C/598	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.667	0.667	-			0.000	0.000		0.003	0.003	-			
Fisher's	Power		---		Power-50%	---		P-value	0.5362	Power	---		Power-50%	---		P-value	0.5362		
Stouffer's	Power		---		Power-50%	---		P-value	0.4498	Power	---		Power-50%	---		P-value	0.4498		
4825C/1424	3	4	235.000	192.376	6	266.667	142.279		0.7369	4	0.040	0.037	6	1.412	0.661		0.0698		
453C/453	3	6	18.333	9.458	3	0.000	0.000		0.0327	6	0.145	0.077	3	0.000	0.000	-	0.0306		
601C/601	3	5	536.000	536.000	6	0.000	0.000		0.3739	5	0.158	0.158	6	0.000	0.000	-	0.3739		
598C/598	3	2	0.000	0.000	6	0.000	0.000	o	1.0000	2	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	3	5	0.000	0.000	1	0.000	---	o	1.0000	5	0.000	0.000	1	0.000	---	o	1.0000		
Habitat Means			187.867	147.567		53.333	33.070	-			0.069	0.054		0.282	0.165	-			
Fisher's	Power		0.197		Power-50%	0.132		P-value	0.1224	Power	0.044		Power-50%	0.040		P-value	0.1491		
Stouffer's	Power		---		Power-50%	0.004		P-value	0.0981	Power	0.001		Power-50%	0.000		P-value	0.1354		

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

Table D-66, Page 9, December 21, 1994

Littorina spp. - abundance (#/m ²)										Littorina spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	1015.000	279.961	4	135.000	55.453		0.0592	6	34.237	14.226	4	11.398	6.303		0.2431		
453C/453	1	5	134.000	48.949	6	450.000	269.357	-	0.9914	5	17.120	7.160	6	31.642	24.247	-	0.4270		
601C/601	1	6	310.000	58.195	6	258.333	94.460		0.4301	6	27.087	15.512	6	19.928	10.858		0.6805		
598C/598	1	6	91.667	56.416	6	358.333	158.817	-	0.5328	6	6.320	3.750	6	11.770	4.629	-	0.7538		
1522C/1522	1	5	280.000	170.411	6	863.333	353.324	-	0.6397	5	13.066	7.667	6	22.730	9.957	-	0.5963		
Habitat Means			366.133	122.786		413.000	186.282				19.566	9.663		19.494	11.199	-			
Fisher's	Power		0.103		Power-50%	0.001		P-value	0.7374x	Power	0.078		Power-50%	0.000		P-value	0.5752		
Stouffer's	Power		0.228		Power-50%	0.027		P-value	0.4434	Power	0.180		Power-50%	0.020		P-value	0.3026		
4825C/1424	2	4	3550.000	3092.790	6	155.000	41.853		0.8026	4	29.805	22.358	6	1.632	0.909	-	0.7168		
453C/453	2	5	1436.000	524.601	6	925.000	452.215	-	0.2572	5	56.916	11.639	6	47.422	13.467	-	0.4195		
601C/601	2	6	781.667	412.261	6	808.333	184.669	-	0.3004	6	13.717	6.008	6	21.288	4.562	-	0.7138		
598C/598	2	6	500.000	123.261	6	501.667	107.033	-	0.9462	6	17.125	4.093	6	15.093	3.141	-	0.9754		
1522C/1522	2	6	761.667	407.843	4	1462.500	832.930	-	0.2988	6	33.282	16.765	4	38.155	12.303	-	0.2654		
Habitat Means			1405.867	916.151		770.500	323.740	-			30.169	12.173		24.717	6.674	-			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.4068 y	Power	0.000		Power-50%	0.000		P-value	0.7222		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.5509	Power	0.000		Power-50%	0.000		P-value	0.5307		
4825C/1424	3	4	85.000	35.000	6	65.000	36.217		0.6331	4	0.308	0.133	6	0.338	0.242	-	0.6902		
453C/453	3	6	878.333	392.491	3	206.667	187.023		0.1754	6	21.577	12.748	3	7.663	7.023	-	0.2416		
601C/601	3	5	68.000	34.554	6	171.667	82.519	-	0.8217	5	1.584	1.171	6	3.282	1.971	-	0.8362		
598C/598	3	2	425.000	425.000	6	306.667	136.642		0.5420	2	21.175	21.175	6	4.413	2.323		0.5683		
1522C/1522	3	5	458.000	269.043	1	0.000	---		---	5	13.702	8.472	1	0.000	---		---		
Habitat Means			382.867	231.218		150.000	110.600				11.669	8.710		3.139	2.890				
Fisher's	Power		0.008		Power-50%	0.099		P-value	0.2113	Power	0.006		Power-50%	0.085		P-value	0.3706		
Stouffer's	Power		0.008		Power-50%	0.141		P-value	0.1088	Power	0.006		Power-50%	0.135		P-value	0.1630		

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

Table D-66, Page 10, December 21, 1994

Table D-66. Invertebrate Abundance and Biomass. Prince William Sound. Sheltered Rocky. May 1990. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	716.667	236.469	4	77.500	27.195	+	0.1033	6	30.927	14.972	4	9.957	6.184	-	0.2464		
453C/453	1	5	132.000	50.040	6	156.667	118.594	-	0.4493	5	17.088	7.178	6	23.495	21.303	-	0.7039		
601C/601	1	6	116.667	56.075	6	130.000	55.737	-	0.9145	6	21.357	14.688	6	16.840	10.928	-	0.7787		
598C/598	1	6	60.000	44.944	6	173.333	107.507	-	0.4686	6	5.498	3.570	6	7.698	3.511	-	0.8911		
1522C/1522	1	5	94.000	55.552	6	438.333	190.042	-	0.3590	5	9.176	7.900	6	14.490	6.671	-	0.7526		
Habitat Means			223.867	88.616		195.167	99.815	-			16.809	9.662		14.496	9.719	-			
Fisher's			Power	0.073		Power-50%	0.002	P-value	0.3579 y		Power	0.044		Power-50%	0.002	P-value	0.7340		
Stouffer's			Power	0.171		Power-50%	0.169	P-value	0.1704		Power	0.118		Power-50%	0.144	P-value	0.4416		
4825C/1424	2	4	2515.000	2215.523	6	21.667	9.098	+	0.2527	4	21.528	16.602	6	0.465	0.331	-	0.2251		
453C/453	2	5	888.000	345.766	6	370.000	147.422	+	0.0768	5	47.860	9.289	6	31.753	12.255	-	0.1713		
601C/601	2	6	121.667	67.202	6	133.333	32.318	-	0.4296	6	2.988	0.523	6	5.375	1.427	-	0.2187		
598C/598	2	6	221.667	86.888	6	116.667	27.162	+	0.7297	6	9.605	3.600	6	6.685	2.038	-	0.8004		
1522C/1522	2	6	541.667	292.614	4	972.500	563.151	-	0.2119	6	28.097	13.846	4	25.515	12.375	-	0.2163		
Habitat Means			857.600	601.599		322.833	155.830	+			22.016	8.772		13.959	5.685	-			
Fisher's			Power	0.005		Power-50%	0.000	P-value	0.2031		Power	0.013		Power-50%	0.001	P-value	0.1056		
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.1779		Power	0.000		Power-50%	0.000	P-value	0.1440		
4825C/1424	3	4	45.000	21.016	6	13.333	9.888	-	0.1892	4	0.125	0.054	6	0.137	0.090	-	0.3773		
453C/453	3	6	390.000	188.255	3	83.333	73.560	+	0.4176	6	18.043	11.608	3	3.220	3.175	-	0.3801		
601C/601	3	5	16.000	9.274	6	13.333	6.146	+	0.9611	5	0.412	0.342	6	0.517	0.306	-	0.7941		
598C/598	3	2	260.000	260.000	6	100.000	44.422	+	0.9745	2	17.455	17.455	6	1.965	1.038	-	0.9644		
1522C/1522	3	5	278.000	177.155	1	0.000	--	+	----	5	9.852	6.624	1	0.000	--	-	----		
Habitat Means			197.800	131.140		42.000	33.504	+			9.177	7.217		1.768	1.152	-			
Fisher's			Power	0.122		Power-50%	0.231	P-value	0.2161		Power	0.028		Power-50%	0.188	P-value	0.5452 y		
Stouffer's			Power	0.194		Power-50%	0.282	P-value	0.2538		Power	0.028		Power-50%	0.248	P-value	0.6271		

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	298.333	164.143	4	57.500	44.605	+	0.3354	6	3.310	1.737	4	1.440	0.923	-	0.9946		
453C/453	1	5	2.000	2.000	6	293.333	182.276	-	0.0486	5	0.032	0.032	6	8.147	4.849	-	0.0396		
601C/601	1	6	193.333	40.634	6	128.333	65.799	+	0.1718	6	5.730	1.541	6	3.088	1.491	-	0.1623		
598C/598	1	6	31.667	15.581	6	185.000	90.397	-	0.5739	6	0.822	0.507	6	4.072	2.425	-	0.9432		
1522C/1522	1	5	186.000	178.510	6	425.000	171.654	-	0.2786	5	3.890	3.589	6	8.240	3.386	-	0.4460		
Habitat Means			142.267	80.174		217.833	110.946	-			2.757	1.481		4.997	2.615	-			
Fisher's			Power	0.098		Power-50%	0.054	P-value	0.1212		Power	0.118		Power-50%	0.020	P-value	0.1779		
Stouffer's			Power	---		Power-50%	0.167	P-value	0.0948		Power	0.278		Power-50%	0.119	P-value	0.1633		
4825C/1424	2	4	1035.000	877.777	6	133.333	45.436	+	0.8370	4	8.278	5.856	6	1.167	0.592	-	0.9060		
453C/453	2	5	548.000	202.297	6	555.000	328.123	-	0.5207	5	9.056	2.788	6	15.668	8.634	-	0.7034		
601C/601	2	6	660.000	376.395	6	675.000	159.682	-	0.3332	6	10.728	5.588	6	15.910	3.434	-	0.1199		
598C/598	2	6	278.333	68.431	6	385.000	100.722	-	0.7758	6	7.520	2.197	6	8.408	1.897	-	0.8163		
1522C/1522	2	6	220.000	129.743	4	490.000	282.695	-	0.4692	6	5.185	3.109	4	12.640	7.337	-	0.7336		
Habitat Means			548.267	330.929		447.667	183.332	-			8.153	3.908		10.759	4.379	-			
Fisher's			Power	0.000		Power-50%	0.000	P-value	0.2749 y		Power	0.000		Power-50%	0.000	P-value	0.2396		
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.1822		Power	0.000		Power-50%	0.000	P-value	0.2130		
4825C/1424	3	4	40.000	15.811	6	51.667	33.007	-	0.7764	4	0.183	0.089	6	0.202	0.165	-	0.6250		
453C/453	3	6	488.333	252.394	3	123.333	113.480	+	0.1700	6	3.533	1.263	3	4.443	3.854	-	0.3390		
601C/601	3	5	52.000	35.412	6	158.333	80.764	-	0.8391	5	1.172	0.839	6	2.765	1.998	-	0.9521		
598C/598	3	2	165.000	165.000	6	206.667	93.262	-	0.5040	2	3.720	3.720	6	2.448	1.385	-	0.5444		
1522C/1522	3	5	180.000	95.026	1	0.000	--	+	----	5	3.850	1.969	1	0.000	--	-	----		
Habitat Means			185.067	112.729		108.000	80.128	-			2.492	1.576		1.972	1.851	-			
Fisher's			Power	0.016		Power-50%	0.147	P-value	0.5843 y		Power	0.009		Power-50%	0.150	P-value	0.4339 y		
Stouffer's			Power	0.000		Power-50%	0.178	P-value	0.5501		Power	0.000		Power-50%	0.183	P-value	0.4518		

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

Table D-66, Page 11. Sheltered Rocky, 1990

Table D-66. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1990. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	853.333	289.386	4	122.500	109.573	-	0.1161	6	27.712	10.546	4	0.870	0.501	-	0.1226		
453C/453	1	5	144.000	122.172	6	540.000	530.063	-	0.6561	5	2.684	2.254	6	20.032	19.583	-	0.7155		
601C/601	1	6	400.000	167.412	6	236.667	127.480	-	0.8475	6	253.542	158.669	6	31.465	14.990	-	0.9701		
598C/598	1	6	206.667	160.492	6	1480.000	774.627	-	0.4533	6	48.708	42.292	6	76.535	46.342	-	0.6840		
1522C/1522	1	5	416.000	330.630	6	3316.667	1366.164	-	0.0908	5	33.834	14.344	6	305.873	183.722	-	0.1720		
Habitat Means			404.000	214.018		1139.167	581.581	-			73.296	45.621		86.955	53.028	-			
Fisher's			Power	0.010		Power-50%	0.060	P-value	0.2466		Power	0.003		Power-50%	0.010	P-value	0.3926		
Stouffer's			Power	0.085		Power-50%	0.342	P-value	0.1823		Power	0.051		Power-50%	0.221	P-value	0.2845		
4825C/1424	2	4	6590.000	6082.304	6	908.333	805.007	-	0.3106	4	62.900	58.970	6	0.958	0.542	-	0.0864		
453C/453	2	5	14256.000	9963.215	6	2781.667	2157.943	-	0.0288	5	203.174	106.504	6	77.585	68.601	-	0.1014		
601C/601	2	6	961.667	222.132	6	1000.000	240.347	-	0.9619	6	89.300	28.817	6	539.310	291.219	-	0.2255		
598C/598	2	6	746.667	224.242	6	928.333	329.944	-	0.6844	6	258.670	116.616	6	77.965	32.039	-	0.1850		
1522C/1522	2	6	1420.000	519.378	4	8010.000	4671.577	-	0.1735	6	403.900	254.773	4	140.557	94.691	-	0.7695		
Habitat Means			4794.867	3402.254		2725.667	1640.964	-			203.589	113.136		167.275	97.418	-			
Fisher's			Power	0.000		Power-50%	0.000	P-value	0.5450 _{xy}		Power	---		Power-50%	---	P-value	0.0383		
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.7554		Power	---		Power-50%	---	P-value	0.0276		
4825C/1424	3	4	11592.500	6335.736	6	11475.000	6103.485	-	0.5695	4	12.222	8.747	6	6.303	2.265	-	0.4908		
453C/453	3	6	32115.000	9936.682	3	336.667	177.044	-	0.0003	6	212.183	99.373	3	3.923	1.318	-	0.0121		
601C/601	3	5	2656.000	992.535	6	728.333	253.212	-	0.0986	5	12.458	4.341	6	13.182	6.261	-	0.5748		
598C/598	3	2	585.000	385.000	6	1425.000	723.274	-	0.7350	2	69.755	69.595	6	37.873	18.305	-	0.5214		
1522C/1522	3	5	2146.000	1214.424	1	830.000	--	+	----	5	229.470	108.981	1	2.570	--	-	----		
Habitat Means			9818.900	3772.875		2959.000	1814.254	+			107.218	58.207		12.770	7.087	-			
Fisher's			Power	---		Power-50%	---	P-value	0.0007		Power	---		Power-50%	---	P-value	0.0371		
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0152		Power	---		Power-50%	---	P-value	0.0333		

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	3.333	2.108	4	0.000	0.000	-	0.1747	6	0.001	0.001	4	0.000	0.000	-	0.1747		
453C/453	1	5	0.000	0.000	6	28.333	28.333	-	0.3632	5	0.000	0.000	6	0.032	0.032	-	0.3632		
601C/601	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
598C/598	1	6	0.000	0.000	6	108.333	108.333	-	0.3632	6	0.000	0.000	6	0.083	0.083	-	0.3632		
1522C/1522	1	5	0.000	0.000	6	6.667	4.216	-	0.1747	5	0.000	0.000	6	0.008	0.005	-	0.1757		
Habitat Means			0.667	0.422		29.000	28.510	-			0.000	0.000		0.025	0.024	-			
Fisher's			Power	0.958		Power-50%	0.000	P-value	0.1217		Power	1.000		Power-50%	0.000	P-value	0.1221		
Stouffer's			Power	---		Power-50%	0.003	P-value	0.0678		Power	---		Power-50%	---	P-value	0.0679		
4825C/1424	2	4	2125.000	2081.772	6	170.000	154.143	-	0.4592	4	2.150	2.084	6	0.113	0.109	-	0.2630		
453C/453	2	5	8.000	5.831	6	190.000	153.101	-	0.4291	5	0.000	0.000	6	0.102	0.098	-	0.2252		
601C/601	2	6	3.333	3.333	6	30.000	9.661	-	0.0153	6	0.000	0.000	6	0.038	0.017	-	0.0271		
598C/598	2	6	10.000	6.831	6	10.000	6.831	-	0.0000	6	0.013	0.008	6	0.012	0.007	-	0.9667		
1522C/1522	2	6	181.667	164.163	4	2317.500	1959.023	-	0.4872	6	0.093	0.073	4	1.860	1.551	-	0.4680		
Habitat Means			465.600	452.386		543.500	456.552	-			0.451	0.433		0.425	0.356	-			
Fisher's			Power	---		Power-50%	---	P-value	0.0629		Power	---		Power-50%	---	P-value	0.0644		
Stouffer's			Power	0.063		Power-50%	0.352	P-value	0.1533		Power	0.099		Power-50%	0.331	P-value	0.1318		
4825C/1424	3	4	9660.000	8077.047	6	1171.667	594.724	-	0.2071	4	5.668	4.869	6	0.493	0.211	-	0.1425		
453C/453	3	6	2250.000	1059.629	3	13.333	6.667	-	0.0059	6	1.198	0.487	3	0.017	0.009	-	0.0158		
601C/601	3	5	1222.000	702.562	6	571.667	203.428	-	0.4445	5	0.764	0.430	6	0.385	0.094	-	0.4861		
598C/598	3	2	30.000	20.000	6	1056.667	654.587	-	0.3795	2	0.050	0.030	6	0.552	0.299	-	0.5763		
1522C/1522	3	5	146.000	115.741	1	660.000	--	-	----	5	0.130	0.087	1	0.460	--	-	----		
Habitat Means			2661.600	1994.996		694.667	364.852	-			1.562	1.281		0.381	0.253	-			
Fisher's			Power	---		Power-50%	---	P-value	0.0119		Power	---		Power-50%	---	P-value	0.0179		
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.1239		Power	0.000		Power-50%	0.000	P-value	0.1077		

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

Table D-66, Page 13, December 21, 1994

Table D-66. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1990. (Continued.)

Pagurus spp. - abundance (#/m ²)										Pagurus spp. - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
453C/453	1	5	0.000	0.000	6	36.667	32.830	-	0.1937	5	0.000	0.000	6	1.498	1.017	-	0.1751
601C/601	1	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.080	0.080	6	0.000	0.000	+	0.3632
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1522C/1522	1	5	0.000	0.000	6	11.667	11.667	-	0.3632	5	0.000	0.000	6	0.235	0.235	-	0.3632
Habitat Means			0.667	0.667		9.667	8.899	-			0.016	0.016		0.347	0.250	-	
Fisher's		Power	0.041		Power-50%	---	P-value	0.3380		Power	0.751		Power-50%	---	P-value	0.3241	
Stouffer's		Power	0.001		Power-50%	---	P-value	0.2521		Power	0.044		Power-50%	---	P-value	0.2426	
4825C/1424	2	4	32.500	14.930	6	16.667	11.738	-	0.2791	4	3.915	3.415	6	5.127	5.021	-	0.3328
453C/453	2	5	18.000	11.136	6	145.000	77.233	-	0.2748	5	0.792	0.515	6	5.315	2.417	-	0.4566
601C/601	2	6	115.000	53.960	6	46.667	26.289	-	0.5965	6	9.478	4.932	6	3.715	1.911	-	0.8247
598C/598	2	6	1.667	1.667	6	11.667	9.804	-	0.5715	6	0.070	0.070	6	4.227	3.513	-	0.4171
1522C/1522	2	6	16.667	11.155	4	97.500	52.658	-	0.2001	6	3.132	1.795	4	7.690	6.976	-	0.5183
Habitat Means			36.767	18.570		63.500	35.544	-			3.477	2.145		5.215	3.968	-	
Fisher's		Power	0.148		Power-50%	0.589	P-value	0.2792		Power	0.123		Power-50%	0.343	P-value	0.2001	
Stouffer's		Power	0.173		Power-50%	0.735	P-value	0.1558		Power	0.259		Power-50%	0.556	P-value	0.1071	
4825C/1424	3	4	0.000	0.000	6	8.333	4.014	-	0.0781	4	0.000	0.000	6	1.800	0.917	-	0.0762
453C/453	3	6	76.667	27.889	3	53.333	43.333	-	0.7612	6	4.718	1.917	3	10.413	9.120	-	0.9640
601C/601	3	5	24.000	14.353	6	30.000	26.077	-	0.4956	5	6.356	5.356	6	6.550	5.568	-	0.4934
598C/598	3	2	10.000	10.000	6	5.000	3.416	-	0.6475	2	0.690	0.690	6	1.498	1.100	-	0.8211
1522C/1522	3	5	36.000	18.330	1	30.000	---	-	----	5	2.338	1.645	1	5.860	---	-	----
Habitat Means			29.333	14.114		25.333	19.210	-			2.820	1.922		5.224	4.176	-	
Fisher's		Power	0.188		Power-50%	0.125	P-value	0.2008	y	Power	0.086		Power-50%	0.084	P-value	0.1274	
Stouffer's		Power	0.180		Power-50%	0.176	P-value	0.5461		Power	0.025		Power-50%	0.148	P-value	0.2685	

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

Table D-66, Page 15, September 21, 1994

Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	3.333	2.108	4	72.500	31.721	-	0.0484	6	2.688	1.700	4	136.033	79.888	-	0.1171
453C/453	1	5	2.000	2.000	6	1.667	1.667	+	0.9000	5	1.692	1.692	6	2.325	2.325	-	0.9296
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1522C/1522	1	5	0.000	0.000	6	11.667	8.333	-	0.1790	5	0.000	0.000	6	14.053	12.872	-	0.1790
Habitat Means			1.067	0.822		17.167	8.344	-			0.876	0.678		30.482	19.017	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0930		Power	0.115		Power-50%	0.486	P-value	0.1392	
Stouffer's		Power	0.234		Power-50%	0.396	P-value	0.3132		Power	0.010		Power-50%	0.481	P-value	0.2933	
4825C/1424	2	4	7.500	4.787	6	23.333	15.635	-	0.2493	4	8.080	6.529	6	16.802	9.656	-	0.5719
453C/453	2	5	30.000	14.142	6	11.667	6.540	+	0.1566	5	24.528	12.063	6	5.842	2.844	+	0.2859
601C/601	2	6	6.667	4.944	6	5.000	3.416	+	0.8914	6	6.178	5.161	6	1.882	1.224	+	0.9210
598C/598	2	6	8.333	4.014	6	13.333	8.028	-	0.6822	6	12.265	5.802	6	19.912	11.188	-	0.9611
1522C/1522	2	6	1.667	1.667	4	20.000	16.833	-	0.1833	6	1.035	1.035	4	24.218	23.585	-	0.3134
Habitat Means			10.833	5.911		14.667	10.090	-			10.417	6.118		13.731	9.699	-	
Fisher's		Power	0.074		Power-50%	0.648	P-value	0.2568		Power	0.024		Power-50%	0.446	P-value	0.5114	
Stouffer's		Power	0.094		Power-50%	0.750	P-value	0.5116		Power	0.055		Power-50%	0.572	P-value	0.6038	
4825C/1424	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000
453C/453	3	6	41.667	25.089	3	33.333	33.333	+	0.7655	6	31.750	19.391	3	31.990	31.990	-	0.7546
601C/601	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
598C/598	3	2	20.000	20.000	6	11.667	4.014	+	0.8055	2	5.665	5.665	6	7.758	3.863	+	0.6590
1522C/1522	3	5	10.000	6.325	1	0.000	---	-	----	5	11.614	8.093	1	0.000	---	-	----
Habitat Means			14.333	10.283		9.000	9.337	+			9.806	6.630		7.950	8.963	-	
Fisher's		Power	0.081		Power-50%	0.107	P-value	0.5901		Power	0.017		Power-50%	0.060	P-value	0.5429	y
Stouffer's		Power	0.077		Power-50%	0.120	P-value	0.3607		Power	0.037		Power-50%	0.059	P-value	0.3018	

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

Table D-66, Page 16, September 21, 1994

Table D-66.

brate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1990. (Continued.)

Nucella lima - abundance (#/m ²)										Nucella lima - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	1.667	1.667	4	0.000	0.000	+	0.3632	6	1.360	1.360	4	0.000	0.000	+	0.3632
453C/453	1	5	2.000	2.000	6	1.667	1.667	+	0.9000	5	1.692	1.692	6	2.325	2.325	+	0.9296
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1522C/1522	1	5	0.000	0.000	6	5.000	3.416	-	0.1784	5	0.000	0.000	6	3.512	2.499	-	0.1753
Habitat Means			0.733	0.733		1.333	1.017	-			0.610	0.610		1.167	0.965	-	
Fisher's	Power		0.173		Power-50%	---	P-value	0.6319	y	Power	0.124		Power-50%	---	P-value	0.4786	
Stouffer's	Power		0.005		Power-50%	---	P-value	0.5346		Power	0.011		Power-50%	---	P-value	0.4199	
4825C/1424	2	4	7.500	4.787	6	0.000	0.000	+	0.1862	4	8.080	6.529	6	0.000	0.000	+	0.1843
453C/453	2	5	26.000	10.770	6	3.333	2.108	+	0.0596	5	20.556	8.768	6	2.898	1.855	+	0.1158
601C/601	2	6	1.667	1.667	6	5.000	3.416	-	0.4876	6	0.913	0.913	6	1.882	1.224	-	0.5485
598C/598	2	6	8.333	4.014	6	13.333	8.028	-	0.8816	6	12.265	5.802	6	19.912	11.188	-	0.9660
1522C/1522	2	6	1.667	1.667	4	2.500	2.500	-	0.7791	6	1.035	1.035	4	0.477	0.478	-	0.8586
Habitat Means			9.033	4.581		4.833	3.210	-			8.570	4.609		5.034	2.949	-	
Fisher's	Power		0.074		Power-50%	0.744	P-value	0.7624	xy	Power	0.198		Power-50%	0.692	P-value	0.1677	
Stouffer's	Power		0.031		Power-50%	0.814	P-value	0.8020		Power	0.043		Power-50%	0.627	P-value	0.1884	
4825C/1424	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000
453C/453	3	6	36.667	24.449	3	33.333	33.333	+	0.9918	6	28.355	17.974	3	31.990	31.990	+	0.9927
601C/601	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
598C/598	3	2	20.000	20.000	6	5.000	2.236	+	0.6343	2	5.665	5.665	6	7.715	3.880	+	0.9803
1522C/1522	3	5	10.000	6.325	1	0.000	--	+	----	5	11.614	8.093	1	0.000	--	+	----
Habitat Means			13.333	10.155		7.667	8.892	+			9.127	6.346		7.941	8.967	+	
Fisher's	Power		0.242		Power-50%	0.229	P-value	0.5945		Power	0.034		Power-50%	0.191	P-value	0.6920	
Stouffer's	Power		0.152		Power-50%	0.220	P-value	0.3510		Power	0.110		Power-50%	0.182	P-value	0.4902	

A. All values are site pair P-values. Values in opposite direction of power are negative.

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

z. Only one site pair.

Table D-66, Page 17, December 20, 1995

Nucella lamellosa - abundance (#/m ²)										Nucella lamellosa - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	1.667	1.667	4	72.500	31.721	-	0.0238	6	1.328	1.328	4	136.033	79.888	-	0.0400
453C/453	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1522C/1522	1	5	0.000	0.000	6	6.667	6.667	-	0.3632	5	0.000	0.000	6	10.542	10.542	-	0.3632
Habitat Means			0.333	0.333		15.833	7.678	-			0.266	0.266		29.315	18.086	-	
Fisher's	Power		---		Power-50%	---	P-value	0.0812		Power	0.114		Power-50%	---	P-value	0.1183	
Stouffer's	Power		0.204		Power-50%	---	P-value	0.3050		Power	0.000		Power-50%	---	P-value	0.3177	
4825C/1424	2	4	0.000	0.000	6	23.333	15.635	-	0.0359	4	0.000	0.000	6	16.802	9.656	-	0.0260
453C/453	2	5	4.000	4.000	6	8.333	6.540	-	0.6653	5	3.972	3.972	6	2.943	2.671	-	0.7601
601C/601	2	6	5.000	5.000	6	0.000	0.000	-	0.3632	6	5.265	5.265	6	0.000	0.000	-	0.3632
598C/598	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1522C/1522	2	6	0.000	0.000	4	17.500	17.500	-	0.3910	6	0.000	0.000	4	23.740	23.740	-	0.3910
Habitat Means			1.800	1.800		9.833	7.935	-			1.847	1.847		8.697	7.213	-	
Fisher's	Power		0.026		Power-50%	---	P-value	0.1237		Power	0.005		Power-50%	---	P-value	0.1436	
Stouffer's	Power		0.004		Power-50%	---	P-value	0.3134		Power	0.000		Power-50%	---	P-value	0.4541	
4825C/1424	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000
453C/453	3	6	5.000	3.416	3	0.000	0.000	+	0.1784	6	3.395	2.592	3	0.000	0.000	+	0.1759
601C/601	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
598C/598	3	2	0.000	0.000	6	6.667	4.944	-	0.1830	2	0.000	0.000	6	0.043	0.031	-	0.1776
1522C/1522	3	5	0.000	0.000	1	0.000	--	o	1.0000	5	0.000	0.000	1	0.000	--	o	1.0000
Habitat Means			1.000	0.683		1.333	1.236	+			0.679	0.518		0.009	0.008	+	
Fisher's	Power		0.026		Power-50%	0.023	P-value	0.5147	y	Power	0.013		Power-50%	0.003	P-value	0.5126	
Stouffer's	Power		0.000		Power-50%	0.004	P-value	0.6255		Power	0.000		Power-50%	0.000	P-value	0.6288	

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

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Table D-66. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1990. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	5.000	3.416	4	5.000	5.000	o	0.8807	6	0.018	0.018	4	0.000	0.000	+	0.3789
453C/453	1	5	0.000	0.000	6	18.333	18.333	-	0.3632	5	0.000	0.000	6	0.258	0.258	-	0.3632
601C/601	1	6	3.333	2.108	6	1.667	1.667	+	0.5490	6	0.017	0.017	6	0.000	0.000	+	0.3582
598C/598	1	6	0.000	0.000	6	8.333	5.426	-	0.1757	6	0.000	0.000	6	0.053	0.035	-	0.1754
1522C/1522	1	5	2.000	2.000	6	126.667	122.710	-	0.4105	5	0.010	0.010	6	0.045	0.041	-	0.6268
Habitat Means			2.067	1.505		32.000	30.627	-			0.009	0.009		0.071	0.067	-	
Fisher's			Power	0.805		Power 50%	0.627	P-value	0.2102		Power	0.042		Power-50%	0.006	P-value	0.33261
Stouffer's			Power	---		Power 50%	0.709	P-value	0.0612		Power	---		Power-50%	---	P-value	0.0967
4825C/1424	2	4	3455.000	3451.667	6	5.000	3.416	+	0.2474	4	4.665	4.665	6	0.000	0.000	+	0.3914
453C/453	2	5	398.000	230.703	6	368.333	201.881	+	0.6569	5	1.420	0.610	6	3.705	2.999	-	0.7780
601C/601	2	6	21.667	11.377	6	73.333	52.132	-	0.5827	6	0.070	0.052	6	0.163	0.085	-	0.6732
598C/598	2	6	38.333	10.775	6	333.333	172.350	-	0.9740	6	0.253	0.095	6	0.835	0.463	-	0.6987
1522C/1522	2	6	415.000	193.989	4	247.500	120.649	-	0.5429	6	0.488	0.215	4	3.613	2.027	-	0.2509
Habitat Means			865.600	779.702		205.500	110.086	+			1.379	1.127		1.663	1.115	-	
Fisher's			Power	0.035		Power-50%	0.177	P-value	0.3545		Power	0.001		Power 50%	0.126	P-value	0.3768
Stouffer's			Power	0.034		Power 50%	0.370	P-value	0.3537		Power	0.020		Power-50%	0.319	P-value	0.2525
4825C/1424	3	4	812.500	620.569	6	101.667	60.686	+	0.1404	4	2.150	0.608	6	0.605	0.487	-	0.0558
453C/453	3	6	1101.667	336.872	3	123.333	78.387	+	0.0195	6	8.233	1.334	3	1.290	0.831	-	0.0063
601C/601	3	5	90.000	63.482	6	428.333	170.047	-	0.0604	5	0.368	0.332	6	2.738	1.914	-	0.0995
598C/598	3	2	40.000	40.000	6	293.333	123.603	-	0.3156	2	0.090	0.090	6	1.157	0.520	-	0.3139
1522C/1522	3	5	178.000	101.656	1	140.000	---	---	---	5	0.238	0.073	1	1.090	---	---	---
Habitat Means			444.433	232.516		217.333	108.181	+			2.216	0.487		1.376	0.938	-	
Fisher's			Power	---		Power-50%	---	P-value	0.0596x		Power	---		Power-50%	---	P-value	0.0142x
Stouffer's			Power	0.008		Power-50%	0.068	P-value	0.4070		Power	0.029		Power 50%	0.048	P-value	0.2864

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
453C/453	1	5	2.000	2.000	6	0.000	0.000	+	0.3739	5	0.001	0.001	6	0.000	0.000	+	0.3739
601C/601	1	6	3.333	2.108	6	0.000	0.000	+	0.1747	6	0.030	0.028	6	0.000	0.000	+	0.2083
598C/598	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.025	0.025	-	0.3632
1522C/1522	1	5	0.000	0.000	6	61.667	61.667	-	0.3632	5	0.000	0.000	6	0.352	0.352	-	0.3632
Habitat Means			1.067	0.822		13.000	13.000	+			0.006	0.006		0.075	0.075	+	
Fisher's			Power	0.493		Power-50%	0.519	P-value	0.4047 y		Power	0.004		Power 50%	0.001	P-value	0.4348 y
Stouffer's			Power	0.084		Power-50%	0.490	P-value	0.5434		Power	0.000		Power-50%	0.001	P-value	0.5525
4825C/1424	2	4	1117.500	1117.500	6	3.333	2.108	+	0.3679	4	5.713	5.713	6	0.142	0.140	+	0.6430
453C/453	2	5	12.000	3.742	6	51.667	47.778	-	0.5925	5	1.370	1.166	6	0.583	0.583	-	0.1965
601C/601	2	6	11.667	4.773	6	86.667	37.387	-	0.3333	6	0.030	0.021	6	0.803	0.353	-	0.1812
598C/598	2	6	21.667	21.667	6	121.667	74.360	-	0.0910	6	0.113	0.113	6	1.233	0.798	-	0.0739
1522C/1522	2	6	48.333	31.667	4	107.500	42.106	-	0.2229	6	0.808	0.549	4	2.770	0.901	-	0.1426
Habitat Means			242.233	235.870		74.167	40.748	-			1.607	1.512		1.106	0.555	-	
Fisher's			Power	---		Power 50%	---	P-value	0.0745 y		Power	---		Power-50%	---	P-value	0.0009 x
Stouffer's			Power	---		Power-50%	0.792	P-value	0.0257 y		Power	0.004		Power 50%	0.366	P-value	0.1051
4825C/1424	3	4	107.500	100.861	6	8.333	3.073	+	0.4291	4	0.065	0.065	6	0.002	0.002	+	0.4120
453C/453	3	6	76.667	38.787	3	0.000	0.000	+	0.0007	6	1.092	0.701	3	0.000	0.000	+	0.0001
601C/601	3	5	22.000	10.198	6	251.667	251.667	-	0.4042	5	0.112	0.105	6	1.503	1.503	-	0.6546
598C/598	3	2	5.000	5.000	6	161.667	62.845	-	0.0367	2	0.000	0.000	6	0.785	0.336	-	0.0025
1522C/1522	3	5	168.000	80.150	1	0.000	---	---	---	5	1.693	1.231	1	0.000	---	---	---
Habitat Means			75.833	46.999		84.333	79.396	+			0.592	0.420		0.458	0.460	-	
Fisher's			Power	---		Power-50%	---	P-value	0.0125xy		Power	---		Power-50%	---	P-value	0.0025x
Stouffer's			Power	0.000		Power-50%	0.150	P-value	0.4623		Power	0.003		Power-50%	0.121	P-value	0.6100

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

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Table D-66. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1990. (Continued.)

Errant polychaetes - abundance (#/m ²)										Errant polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	3.333	3.333	4	0.000	0.000	+	0.3632	6	0.023	0.023	4	0.000	0.000	+	0.3632		
453C/453	1	5	2.000	2.000	6	25.000	25.000	-	0.7349	5	0.012	0.012	6	0.022	0.022	-	0.9936		
601C/601	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632		
598C/598	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	1	5	0.000	0.000	6	30.000	26.204	-	0.1911	5	0.000	0.000	6	0.185	0.142	-	0.1776		
Habitat Means			1.733	1.733		11.333	10.574	-			0.007	0.007		0.041	0.033	-			
Fisher's		Power	0.054		Power-50%	---	P-value	0.5429		Power	0.070		Power-50%	---	P-value	0.5869			
Stouffer's		Power	0.001		Power-50%	---	P-value	0.4545		Power	0.039		Power-50%	---	P-value	0.5208			
4825C/1424	2	4	22.500	19.311	6	23.333	15.635	-	0.9865	4	0.013	0.010	6	0.025	0.025	-	0.6584		
453C/453	2	5	34.000	26.758	6	53.333	30.840	-	0.6747	5	0.034	0.029	6	0.120	0.109	-	0.9317		
601C/601	2	6	33.333	27.528	6	50.000	42.269	-	0.7043	6	0.010	0.008	6	0.007	0.007	+	0.7316		
598C/598	2	6	100.000	64.187	6	1.667	1.667	-	0.0292	6	0.034	0.018	6	0.000	0.000	+	0.0754		
1522C/1522	2	6	0.000	0.000	4	20.000	14.142	-	0.6838	6	0.000	0.000	4	0.180	0.180	-	0.3585		
Habitat Means			37.967	27.557		29.667	20.911	-			0.018	0.013		0.066	0.064	-			
Fisher's		Power	0.167		Power-50%	0.263	P-value	0.6435 ^x		Power	0.027		Power-50%	0.115	P-value	0.6121 ^x			
Stouffer's		Power	0.240		Power-50%	0.472	P-value	0.9026		Power	0.076		Power-50%	0.357	P-value	0.8814			
4825C/1424	3	4	105.000	55.151	6	215.000	122.277	-	0.7505	4	0.025	0.015	6	0.492	0.335	-	0.3457		
453C/453	3	6	755.000	481.634	3	420.000	140.119	-	0.6338	6	0.469	0.144	3	0.157	0.065	-	0.3746		
601C/601	3	5	24.000	13.638	6	178.333	71.340	-	0.0442	5	0.014	0.014	6	0.135	0.099	-	0.1594		
598C/598	3	2	45.000	45.000	6	535.000	192.280	-	0.2448	2	0.000	0.000	6	5.312	5.124	-	0.1003		
1522C/1522	3	5	78.000	63.435	1	0.000	0.000	---	---	5	0.026	0.026	1	0.000	---	---	---		
Habitat Means			201.400	131.722		269.667	131.504	-			0.107	0.040		1.219	1.406	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0686		Power	---		Power-50%	---	P-value	0.0597			
Stouffer's		Power	0.000		Power-50%	0.173	P-value	0.1178		Power	---		Power-50%	---	P-value	0.0985			

Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
453C/453	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
601C/601	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632		
598C/598	1	6	0.000	0.000	6	6.667	6.667	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
1522C/1522	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.333	0.333		1.333	1.333	+			0.000	0.000		0.000	0.000	-			
Fisher's		Power	---		Power-50%	---	P-value	0.6316 ^y		Power	---		Power-50%	---	P-value	0.6316 ^y			
Stouffer's		Power	---		Power-50%	---	P-value	0.6898		Power	---		Power-50%	---	P-value	0.6898			
4825C/1424	2	4	100.000	100.000	6	5.000	3.416	+	0.6814	4	0.150	0.150	6	0.000	0.000	-	0.4277		
453C/453	2	5	2.000	2.000	6	13.333	9.888	-	0.4729	5	0.000	0.000	6	0.042	0.042	-	0.3654		
601C/601	2	6	10.000	10.000	6	0.000	0.000	+	0.3632	6	0.007	0.007	6	0.000	0.000	-	0.3632		
598C/598	2	6	43.333	16.055	6	0.000	0.000	+	0.0259	6	0.052	0.027	6	0.000	0.000	-	0.0300		
1522C/1522	2	6	1.667	1.667	4	25.000	25.000	-	0.4890	6	0.002	0.002	4	0.000	0.000	+	0.5718		
Habitat Means			31.400	25.944		8.667	7.661	-			0.042	0.037		0.008	0.008	-			
Fisher's		Power	0.896		Power-50%	0.952	P-value	0.1195		Power	---		Power-50%	---	P-value	0.0584			
Stouffer's		Power	---		Power-50%	0.977	P-value	0.0704		Power	---		Power-50%	---	P-value	0.0502			
4825C/1424	3	4	365.000	224.555	6	1400.000	626.024	+	0.4308	4	0.223	0.223	6	1.065	0.663	-	0.5040		
453C/453	3	6	361.667	202.360	3	23.333	23.333	+	0.1634	6	0.004	0.003	3	0.057	0.057	-	0.5704		
601C/601	3	5	44.000	11.662	6	345.000	243.704	-	0.4094	5	0.000	0.000	6	0.461	0.304	-	0.0706		
598C/598	3	2	15.000	15.000	6	203.333	165.220	-	0.5913	2	0.010	0.010	6	0.807	0.797	-	0.6078		
1522C/1522	3	5	2.000	2.000	1	0.000	0.000	---	---	5	0.000	0.000	1	0.000	---	---	---		
Habitat Means			157.533	91.115		394.333	264.570	-			0.047	0.047		0.478	0.455	-			
Fisher's		Power	0.009		Power-50%	0.233	P-value	0.3551		Power	---		Power-50%	---	P-value	0.0734			
Stouffer's		Power	0.005		Power-50%	0.326	P-value	0.5092		Power	0.041		Power-50%	0.211	P-value	0.1080			

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

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

z Only one site pair.

Table D-66, Page 21, December 21, 1994

Table D-66. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1990. (Continued.)

Oligochaeta - abundance (#/m²)										Oligochaeta - biomass (g/m²)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
4825C/1424	1	6	296.667	286.713	4	27.500	24.281	-	0.7538	6	0.040	0.040	4	0.000	0.000	-	0.3880	
453C/453	1	5	6.000	6.000	6	123.333	123.333	-	0.7685	5	0.000	0.000	6	0.018	0.018	-	0.4125	
601C/601	1	6	1.667	1.667	6	23.333	14.757	-	0.1707	6	0.000	0.000	6	0.017	0.011	-	0.1670	
598C/598	1	6	10.000	8.165	6	210.000	105.578	-	0.2307	6	0.000	0.000	6	0.135	0.091	-	0.1067	
1522C/1522	1	5	416.000	258.565	6	673.333	470.288	-	0.2745	5	0.224	0.145	6	0.189	0.115	-	0.8547	
Habitat Means			146.067	112.222		211.500	147.647	-			0.053	0.037		0.072	0.047	-		
Fisher's									0.0976	Power	0.065			Power-50%	0.201		P-value	0.1139
Stouffer's									0.0562	Power	---			Power-50%	---		P-value	0.0322
4825C/1424	2	4	2460.000	2443.348	6	328.333	142.932	+	0.9262	4	0.548	0.547	6	0.098	0.074	-	0.8714	
453C/453	2	5	4912.000	3310.742	6	2423.333	1495.310	+	0.3211	5	0.712	0.347	6	1.080	0.526	-	0.5996	
601C/601	2	6	50.000	34.448	6	380.000	135.474	-	0.0103	6	0.008	0.008	6	0.199	0.096	-	0.0164	
598C/598	2	6	218.333	98.739	6	938.333	638.887	-	0.9528	6	0.082	0.034	6	0.530	0.366	-	0.8835	
1522C/1522	2	6	1041.667	721.121	4	2405.000	770.957	-	0.1278	6	0.348	0.206	4	0.410	0.095	-	0.1117	
Habitat Means			1736.400	1321.680		1295.000	636.712	-			0.340	0.228		0.463	0.231			
Fisher's									0.0388 y	Power	---			Power-50%	---		P-value	0.0243
Stouffer's									0.3383	Power	0.012			Power-50%	0.335		P-value	0.1047
4825C/1424	3	4	1910.000	1440.145	6	3260.000	1910.482	-	0.8677	4	0.073	0.072	6	0.239	0.147	-	0.4816	
453C/453	3	6	9985.000	4905.651	3	103.333	38.442	+	0.0138	6	1.013	0.504	3	0.153	0.057	-	0.3165	
601C/601	3	5	214.000	201.633	6	256.667	151.232	-	0.3746	5	0.324	0.324	6	0.179	0.178	-	0.9103	
598C/598	3	2	360.000	360.000	6	555.000	227.914	-	0.2267	2	0.145	0.145	6	0.493	0.282	-	0.4884	
1522C/1522	3	5	856.000	466.268	1	30.000	---	+	---	5	0.710	0.580	1	0.001	---	-	---	
Habitat Means			2665.000	1474.739		841.000	582.018	-			0.453	0.325		0.213	0.166	-		
Fisher's									0.3106xy	Power	0.003			Power-50%	0.029		P-value	0.6051
Stouffer's									0.5566	Power	0.007			Power-50%	0.035		P-value	0.5315

Total Invertebrates - abundance (#/m²)										Total Invertebrates - biomass (g/m²)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
4825C/1424	1	6	3076.667	787.446	4	1042.500	497.098	+	0.1175	6	85.436	15.924	4	158.784	87.416	-	0.3109	
453C/453	1	5	3570.000	3248.697	6	1840.000	1162.380	+	0.7936	5	66.723	41.021	6	84.019	35.782	-	0.5334	
601C/601	1	6	4685.000	1826.159	6	1998.333	794.185	+	0.5428	6	674.763	290.938	6	108.560	34.303	-	0.5329	
598C/598	1	6	1676.667	773.639	6	6291.667	2710.212	-	0.3425	6	126.320	67.701	6	244.813	118.670	-	0.6671	
1522C/1522	1	5	9018.000	3552.559	6	12705.000	3921.827	-	0.8588	5	400.525	127.566	6	600.859	258.671	-	0.9919	
Habitat Means			4405.267	2037.700		4775.500	1817.140	+			270.753	108.630		239.407	106.968	-		
Fisher's									0.3110 y	Power	0.000			Power-50%	0.000		P-value	0.3908 y
Stouffer's									0.6091	Power	0.000			Power-50%	0.000		P-value	0.2539
4825C/1424	2	4	20970.000	19544.852	6	3993.333	1548.975	+	0.6498	4	146.002	103.280	6	46.340	15.712	-	0.7324	
453C/453	2	5	35882.000	23954.043	6	8286.667	4942.314	+	0.0187	5	374.204	94.794	6	155.667	84.309	-	0.0651	
601C/601	2	6	6196.667	3204.114	6	5511.667	685.507	+	0.5691	6	574.632	237.793	6	845.128	363.730	-	0.5443	
598C/598	2	6	5425.000	1304.182	6	7631.667	1132.538	-	0.5037	6	682.365	191.996	6	251.352	48.826	-	0.2977	
1522C/1522	2	6	8608.333	2741.206	4	26722.500	11006.460	-	0.1503	6	685.416	370.518	4	317.532	105.596	+	0.7539	
Habitat Means			15416.400	10149.679		10429.167	3863.175	+			492.524	199.676		323.204	123.635	-		
Fisher's									0.1379	Power	0.000			Power-50%	0.000		P-value	0.1230
Stouffer's									0.2662	Power	---			Power-50%	---		P-value	0.0393
4825C/1424	3	4	87945.000	47849.656	6	99193.333	63912.098	-	0.7702	4	491.455	448.864	6	19.572	5.947	-	0.1861	
453C/453	3	6	70745.000	18900.572	3	1770.000	160.728	+	0.0010	6	537.856	224.816	3	80.231	50.857	-	0.1495	
601C/601	3	5	9282.000	2412.910	6	10893.333	3703.639	-	0.9669	5	233.804	99.678	6	279.517	124.490	-	0.8172	
598C/598	3	2	2700.000	2480.000	6	13955.000	3273.776	-	0.0264	2	168.762	167.402	6	376.344	83.890	-	0.5052	
1522C/1522	3	5	7534.000	3346.417	1	1970.000	---	+	---	5	556.921	240.370	1	14.142	---	-	---	
Habitat Means			35641.200	14997.911		25556.334	17762.560	-			397.760	236.226		153.961	66.296	-		
Fisher's									0.1504xy	Power	0.000			Power-50%	0.000		P-value	0.1715
Stouffer's									0.4883	Power	0.000			Power-50%	0.000		P-value	0.3497

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

Table D-67. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	5.000	3.416	6	10.000	3.651	-	0.4353	6	1.012	0.692	6	0.757	0.279	+	0.4254		
453C/453	1	6	20.000	10.000	6	13.333	8.819	+	0.6109	6	3.515	2.518	6	2.440	1.543	+	0.6133		
601C/601	1	6	94.433	46.748	6	28.333	18.871	+	0.4958	6	8.363	3.989	6	2.705	1.656	+	0.7183		
598C/598	1	6	83.333	41.846	6	41.667	26.760	+	0.3775	6	7.050	4.337	6	6.022	4.735	+	0.5172		
1522C/1522	1	6	101.667	30.377	6	73.333	30.732	+	0.4611	6	18.500	8.206	6	8.935	4.277	+	0.4493		
Habitat Means			60.887	26.477		33.333	17.767	+			7.688	3.948		4.172	2.498	+			
Fisher's		Power	0.041		Power-50%	0.440	P-value	0.2903		Power	0.047		Power-50%	0.373	P-value	0.2127			
Stouffer's		Power	0.046		Power-50%	0.629	P-value	0.1236		Power	0.012		Power-50%	0.532	P-value	0.1310			
4825C/1424	2	6	10.000	5.164	6	16.667	13.081	-	0.8654	6	3.018	2.392	6	4.107	3.790	-	0.8548		
453C/453	2	6	83.333	32.830	6	141.667	62.044	-	0.1423	6	12.095	8.595	6	16.592	4.943	-	0.4509		
601C/601	2	6	15.000	4.282	6	51.667	30.267	-	0.3533	6	2.652	1.330	6	4.060	1.576	-	0.8128		
598C/598	2	6	85.550	22.252	6	48.333	18.514	-	0.3461	6	7.625	1.967	6	10.810	3.995	-	0.5928		
1522C/1522	2	6	28.333	11.081	6	51.667	25.221	-	0.5537	6	3.280	1.988	6	8.252	5.351	-	0.4048		
Habitat Means			44.443	15.122		62.000	29.825	-			5.731	3.254		8.764	3.931	-			
Fisher's		Power	0.011		Power-50%	0.034	P-value	0.2033		Power	0.001		Power-50%	0.002	P-value	0.2779			
Stouffer's		Power	0.002		Power-50%	0.092	P-value	0.3415		Power	0.000		Power-50%	0.022	P-value	0.1478			
4825C/1424	3	5	0.000	0.000	6	13.333	8.433	-	0.1747	5	0.000	0.000	6	2.775	2.323	-	0.1774		
453C/453	3	6	43.333	14.063	5	50.000	10.488	-	0.4132	6	2.697	0.974	5	3.382	0.836	-	0.3649		
601C/601	3	5	20.000	8.944	6	10.333	5.426	+	0.3566	5	2.000	1.001	6	2.446	1.830	-	0.4125		
598C/598	3	5	32.660	19.503	6	12.150	6.680	+	0.5921	5	5.057	2.245	6	0.548	0.456	-	0.2791		
1522C/1522	3	6	6.667	4.216	6	11.667	6.540	-	0.6031	6	0.312	0.200	6	0.590	0.375	-	0.8966		
Habitat Means			20.532	9.345		19.497	7.513	-			2.013	0.884		1.948	1.164	-			
Fisher's		Power	0.159		Power-50%	0.191	P-value	0.3183 y		Power	0.003		Power-50%	0.251	P-value	0.2068 y			
Stouffer's		Power	0.093		Power-50%	0.351	P-value	0.4596		Power	0.001		Power-50%	0.423	P-value	0.4824			

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

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

z Only one site pair.

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Lottia pelta - abundance (#/m ²)										Lottia pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	1.667	1.667	6	8.333	4.014	-	0.2083	6	0.677	0.677	6	0.578	0.295	+	0.3392		
453C/453	1	6	3.333	2.108	6	0.000	0.000	+	0.1747	6	0.265	0.171	6	0.000	0.000	+	0.1749		
601C/601	1	6	0.000	0.000	6	3.333	2.108	-	0.1747	6	0.000	0.000	6	0.270	0.184	-	0.1754		
598C/598	1	6	16.667	13.081	6	35.000	27.417	-	0.6343	6	2.463	2.212	6	5.375	4.819	-	0.6259		
1522C/1522	1	6	5.000	2.236	6	23.333	15.635	-	0.3579	6	0.437	0.196	6	3.683	2.285	-	0.3937		
Habitat Means			5.333	3.828		14.000	9.835	-			0.768	0.651		1.981	1.517	-			
Fisher's		Power	0.049		Power-50%	0.713	P-value	0.1208		Power	0.011		Power-50%	0.423	P-value	0.3578			
Stouffer's		Power	0.007		Power-50%	0.804	P-value	0.3711		Power	0.000		Power-50%	0.544	P-value	0.4934			
4825C/1424	2	6	3.333	2.108	6	3.333	3.333	o	0.7370	6	0.308	0.207	6	0.263	0.263	+	0.6061		
453C/453	2	6	66.667	32.626	6	68.333	24.687	-	0.2357	6	10.972	7.944	6	12.020	4.676	-	0.1583		
601C/601	2	6	3.333	2.108	6	18.333	9.458	-	0.1519	6	0.580	0.462	6	1.993	0.932	-	0.1627		
598C/598	2	6	21.667	9.804	6	35.000	14.776	-	0.9817	6	3.160	2.008	6	9.272	3.779	-	0.8933		
1522C/1522	2	6	6.667	6.667	6	36.667	17.826	-	0.0148	6	1.877	1.877	6	6.628	4.953	-	0.0129		
Habitat Means			20.333	10.663		32.333	14.016	-			3.379	2.500		6.035	2.921	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0174		Power	---		Power-50%	---	P-value	0.0127			
Stouffer's		Power	---		Power-50%	0.786	P-value	0.0752		Power	---		Power-50%	---	P-value	0.0525			
4825C/1424	3	5	0.000	0.000	6	5.000	5.000	-	0.3632	5	0.000	0.000	6	0.332	0.332	-	0.3632		
453C/453	3	6	16.667	10.853	5	34.000	10.296	-	0.0698	6	0.998	0.664	5	2.424	0.856	-	0.0384		
601C/601	3	5	6.000	4.000	6	10.333	5.426	-	0.6883	5	0.582	0.493	6	2.446	1.830	-	0.6414		
598C/598	3	5	28.660	16.177	6	6.667	6.667	+	0.1923	5	4.653	2.158	6	0.465	0.465	-	0.1359		
1522C/1522	3	6	1.667	1.667	6	8.333	5.426	-	0.4111	6	0.080	0.080	6	0.540	0.342	-	0.4602		
Habitat Means			10.599	6.539		12.867	6.563	-			1.263	0.679		1.241	0.765	-			
Fisher's		Power	0.584		Power-50%	0.538	P-value	0.1110		Power	-		Power-50%	---	P-value	0.0820 y			
Stouffer's		Power	0.247		Power-50%	0.667	P-value	0.3672		Power	0.021		Power-50%	0.600	P-value	0.3715			

z Only one site pair.

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Table D-67. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, July 1990. (Continued.)

Tectura persona - abundance (#/m ²)										Tectura persona - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	3.333	3.333	6	1.667	1.667	+	0.9164	6	0.335	0.335	6	0.178	0.178	+	0.9637		
453C/453	1	6	10.000	6.831	6	11.667	7.491	-	0.9496	6	2.513	2.321	6	2.412	1.525	+	0.9240		
601C/601	1	6	46.667	34.992	6	25.000	19.279	+	0.5133	6	4.813	3.360	6	2.435	1.643	+	0.5163		
598C/598	1	6	65.000	31.278	6	6.667	3.333	+	0.0597	6	4.518	2.314	6	0.647	0.421	+	0.1552		
1522C/1522	1	6	95.000	29.183	6	40.000	21.334	+	0.2335	6	18.000	8.081	6	4.387	3.098	+	0.2773		
Habitat Means			44.000	21.123		17.000	10.581	+			6.036	3.282		2.012	1.373	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0769	Power	0.015		Power-50%	0.301		P-value	0.1404		
Stouffer's	Power		---		Power-50%	0.620		P-value	0.0327	Power	---		Power-50%	---		P-value	0.0622		
4825C/1424	2	6	1.667	1.667	6	3.333	3.333	-	0.9044	6	0.117	0.117	6	0.272	0.272	-	0.9444		
453C/453	2	6	3.333	2.108	6	21.667	6.540	-	0.0431	6	0.165	0.109	6	1.842	0.729	-	0.0450		
601C/601	2	6	3.333	3.333	6	26.667	22.755	-	0.2169	6	0.340	0.340	6	1.068	0.891	-	0.2788		
598C/598	2	6	50.550	23.572	6	10.000	6.811	-	0.0318	6	3.664	1.530	6	1.343	0.963	-	0.0561		
1522C/1522	2	6	18.333	7.923	6	11.667	9.604	-	0.2453	6	1.182	0.465	6	0.773	0.574	-	0.2427		
Habitat Means			15.443	7.721		14.667	9.853	-			1.094	0.512		1.060	0.686	-			
Fisher's	Power		0.199		Power-50%	0.716		P-value	0.1731	Power	0.264		Power-50%	0.695		P-value	0.2050		
Stouffer's	Power		0.145		Power-50%	0.822		P-value	0.7030	Power	0.151		Power-50%	0.795		P-value	0.6562		
4825C/1424	3	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
453C/453	3	6	0.000	0.000	5	4.000	4.000	-	0.3739	6	0.000	0.000	5	0.338	0.338	-	0.3749		
601C/601	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
598C/598	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.800	0.800	-			0.000	0.000		0.068	0.068	-			
Fisher's	Power		---		Power-50%	---		P-value	0.5417	Power	---		Power-50%	---		P-value	0.5417		
Stouffer's	Power		---		Power-50%	---		P-value	0.3186	Power	---		Power-50%	---		P-value	0.3186		

Tectura scutum - abundance (#/m ²)										Tectura scutum - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.228	0.228	o	0.3632		
Habitat Means			0.000	0.000		0.333	0.333	-			0.000	0.000		0.046	0.046	-			
Fisher's	Power		---		Power-50%	---		P-value	0.5362	Power	---		Power-50%	---		P-value	0.5362		
Stouffer's	Power		---		Power-50%	---		P-value	0.4251	Power	---		Power-50%	---		P-value	0.4251		
4825C/1424	2	6	1.667	1.667	6	10.000	10.000	-	0.6815	6	2.477	2.477	6	3.572	3.572	-	0.9755		
453C/453	2	6	1.667	1.667	6	5.000	5.000	-	0.8039	6	0.588	0.588	6	1.687	1.687	-	0.9295		
601C/601	2	6	6.667	4.944	6	1.667	1.667	+	0.4119	6	1.587	1.481	6	0.127	0.127	+	0.4628		
598C/598	2	6	8.333	4.773	6	0.000	0.000	-	0.0528	6	0.597	0.280	6	0.000	0.000	-	0.0797		
1522C/1522	2	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.222	0.222	6	0.837	0.837	-	0.9112		
Habitat Means			4.000	2.944		3.667	3.667	-			1.094	1.010		1.245	1.245	-			
Fisher's	Power		0.032		Power-50%	0.823		P-value	0.1883	Power	0.062		Power-50%	0.402		P-value	0.8810		
Stouffer's	Power		---		Power-50%	0.868		P-value	0.0661	Power	0.000		Power-50%	0.482		P-value	0.9274		
4825C/1424	3	5	0.000	0.000	6	8.333	6.500	-	0.1868	5	0.000	0.000	6	2.443	2.356	-	0.1876		
453C/453	3	6	20.000	9.309	5	4.000	2.449	-	0.2397	6	1.497	0.887	5	0.298	0.189	-	0.3505		
601C/601	3	5	10.000	5.477	6	0.000	0.000	+	0.0778	5	1.200	0.611	6	0.000	0.000	-	0.0713		
598C/598	3	5	4.000	4.000	6	1.667	1.667	+	0.7734	5	0.404	0.404	6	0.083	0.083	-	0.7919		
1522C/1522	3	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.050	0.050	-	0.3632		
Habitat Means			6.800	3.757		3.133	2.455	-			0.620	0.380		0.575	0.536	-			
Fisher's	Power		0.042		Power-50%	0.277		P-value	0.2109	Power	0.013		Power-50%	0.211		P-value	0.2468		
Stouffer's	Power		0.000		Power-50%	0.437		P-value	0.1887	Power	0.055		Power-50%	0.352		P-value	0.2281		

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

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Table D-67. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, July 1990. (Continued.)

Site Pair	MVD	Balanomorphs - abundance (#/m ²)								Balanomorphs - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	878.333	411.043	6	758.333	629.335	+	0.4893	6	122.412	80.145	6	3.500	2.492	+	0.1667
453C/453	1	6	2646.667	1789.271	6	283.333	261.619	+	0.1882	6	58.773	38.115	6	11.272	9.507	+	0.4003
601C/601	1	6	4706.667	1663.628	6	1201.667	379.925	+	0.5045	6	374.259	125.862	6	104.492	40.276	+	0.6349
598C/598	1	6	2000.000	518.568	6	3551.667	1064.219	-	0.4146	6	152.762	74.854	6	212.648	105.466	-	0.4664
1522C/1522	1	6	3130.000	2040.173	6	10903.333	4674.294	-	0.1565	6	162.605	105.688	6	231.535	81.363	-	0.3535
Habitat Means			2672.333	1284.537		3339.667	1401.878	+			174.162	84.933		112.689	47.821	+	
Fisher's		Power	0.060		Power-50%	0.130	P-value	0.3634	y	Power	0.087		Power-50%	0.139	P-value	0.3271	
Stouffer's		Power	0.171		Power-50%	0.352	P-value	0.4917		Power	0.234		Power-50%	0.347	P-value	0.5040	
4825C/1424	2	6	881.117	545.425	6	215.000	98.953	+	0.8133	6	22.775	9.600	6	0.453	0.183	+	0.0045
453C/453	2	6	3321.667	2335.185	6	1291.667	859.513	+	0.4728	6	548.323	461.591	6	41.738	25.683	+	0.0796
601C/601	2	6	5757.783	3016.529	6	4495.000	2328.646	+	0.6546	6	289.906	114.179	6	225.867	112.431	+	0.9397
598C/598	2	6	4642.217	2060.872	6	4458.333	1512.205	-	0.9480	6	251.638	73.810	6	142.622	63.833	-	0.5462
1522C/1522	2	6	3496.667	1600.185	6	5960.000	3042.410	-	0.3842	6	258.630	127.939	6	289.988	180.679	-	0.7417
Habitat Means			3619.890	1911.639		3284.000	1568.345	+			274.254	137.424		140.134	76.562	+	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.5476		Power	---		Power-50%	---	P-value	0.0085	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.3495		Power	---		Power-50%	---	P-value	0.0408	
4825C/1424	3	5	22.000	9.695	6	1431.667	1294.896	-	0.4095	5	0.324	0.169	6	4.695	4.360	-	0.8325
453C/453	3	6	313.333	237.749	5	144.000	105.338	-	0.9208	6	11.097	7.532	5	3.564	3.158	-	0.8664
601C/601	3	5	2858.000	1237.685	6	3042.667	1098.751	-	0.9137	5	271.204	145.183	6	138.933	64.077	+	0.9508
598C/598	3	5	4545.980	1485.583	6	4404.050	2149.356	-	0.9336	5	286.490	58.049	6	174.029	62.207	+	0.6701
1522C/1522	3	6	2353.883	1307.586	6	531.667	475.748	+	0.2650	6	216.561	98.455	6	20.752	17.535	+	0.1821
Habitat Means			2018.639	855.660		1910.810	1024.818	+			157.135	61.878		68.395	30.267	+	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.5515		Power	0.000		Power-50%	0.000	P-value	0.3409	
Stouffer's		Power	0.000		Power-50%	0.003	P-value	0.4171		Power	0.000		Power-50%	0.006	P-value	0.2477	

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

Table D-67, Page 50, December 21, 1994

Site Pair	MVD	Chthamalus dalli - abundance (#/m ²)								Chthamalus dalli - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	11.000	7.424	6	383.333	337.035	+	0.1022	6	0.047	0.038	6	2.702	2.433	+	0.3120
453C/453	1	6	1206.667	907.001	6	45.000	45.000	+	0.1117	6	4.047	3.216	6	0.303	0.303	+	0.1524
601C/601	1	6	240.000	230.087	6	1.667	1.667	+	0.2601	6	1.172	1.087	6	0.003	0.003	+	0.1762
598C/598	1	6	140.000	93.630	6	425.000	290.686	-	0.2568	6	0.415	0.318	6	1.045	0.554	-	0.2227
1522C/1522	1	6	110.000	108.012	6	2288.333	1405.106	-	0.0214	6	0.342	0.336	6	16.222	9.990	-	0.0029
Habitat Means			341.667	269.244		668.667	456.060	-			1.205	0.999		3.995	2.617	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0643		Power	---		Power-50%	---	P-value	0.0178	
Stouffer's		Power	0.001		Power-50%	0.415	P-value	0.3434		Power	0.003		Power-50%	0.396	P-value	0.2632	
4825C/1424	2	6	11.667	6.009	6	198.333	99.780	-	0.1353	6	0.047	0.031	6	0.358	0.168	-	0.2361
453C/453	2	6	1996.667	1730.720	6	345.000	333.054	+	0.1619	6	7.160	6.043	6	0.905	0.805	+	0.1559
601C/601	2	6	213.333	184.059	6	143.333	137.372	+	0.7079	6	0.728	0.620	6	0.440	0.418	+	0.8142
598C/598	2	6	11.667	6.540	6	75.000	48.700	-	0.4570	6	0.062	0.048	6	0.270	0.184	-	0.6718
1522C/1522	2	6	540.000	536.010	6	975.000	454.612	-	0.0291	6	3.775	3.771	6	4.163	1.945	-	0.0139
Habitat Means			554.667	492.668		347.333	214.704	-			2.354	2.103		1.227	0.704	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0577	y	Power	---		Power-50%	---	P-value	0.0621	y
Stouffer's		Power	0.001		Power-50%	0.440	P-value	0.3411		Power	0.005		Power-50%	0.368	P-value	0.4218	
4825C/1424	3	5	4.000	2.449	6	1426.667	1293.941	-	0.1125	5	0.020	0.020	6	4.655	4.321	-	0.1211
453C/453	3	6	110.000	66.483	5	50.000	40.125	+	0.8880	6	0.250	0.154	5	0.228	0.133	+	0.7378
601C/601	3	5	24.000	12.884	6	76.667	76.667	-	0.4698	5	0.098	0.054	6	0.260	0.260	-	0.3702
598C/598	3	5	8.000	4.783	6	47.783	43.829	-	0.7273	5	0.038	0.029	6	0.071	0.061	-	0.9843
1522C/1522	3	6	3.333	3.333	6	295.000	279.151	-	0.1189	6	0.010	0.010	6	0.710	0.674	-	0.1949
Habitat Means			29.867	18.010		379.223	346.743	-			0.083	0.053		1.185	1.090	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0641		Power	0.008		Power-50%	0.222	P-value	0.1003	
Stouffer's		Power	0.080		Power-50%	0.706	P-value	0.1821		Power	0.007		Power-50%	0.367	P-value	0.2981	

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

Table D-67, Page 51, December 21, 1994

Table D-67. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, July 1990. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	98.333	60.245	6	6.667	3.333	+	0.0753	6	22.230	13.790	6	0.175	0.091	+	0.0531		
453C/453	1	6	393.333	269.068	6	120.000	108.444	+	0.1215	6	25.243	16.607	6	7.945	6.468	+	0.1711		
601C/601	1	6	216.667	89.951	6	28.333	13.764	+	0.0904	6	14.257	4.909	6	0.647	0.274	+	0.1060		
598C/598	1	6	86.667	22.161	6	83.333	23.617	+	0.7268	6	2.827	0.704	6	4.983	2.819	-	0.6279		
1522C/1522	1	6	30.000	24.221	6	170.000	77.675	-	0.0295	6	1.372	1.111	6	10.633	3.849	-	0.0137		
Habitat Means			165.000	93.129		81.667	45.367	+			13.186	7.424		4.877	2.701	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0256x		Power	---		Power-50%	---	P-value	0.0426x		
Stouffer's			Power	0.091		Power-50%	1.469	P-value	0.1004		Power	0.034		Power-50%	0.402	P-value	0.3154		
4825C/1424	2	6	71.667	38.680	6	1.667	1.667	+	0.0416	6	4.335	3.321	6	0.050	0.050	+	0.0432		
453C/453	2	6	236.667	210.929	6	146.667	115.287	+	0.7632	6	5.372	3.599	6	10.173	8.499	-	0.9670		
601C/601	2	6	171.117	53.344	6	50.000	15.706	+	0.3758	6	11.631	5.342	6	2.118	0.714	-	0.5532		
598C/598	2	6	108.883	36.589	6	73.333	28.480	+	0.9976	6	4.136	1.849	6	2.197	0.575	-	0.1385		
1522C/1522	2	6	15.000	10.247	6	35.000	19.791	-	0.1965	6	0.485	0.337	6	7.640	6.387	-	0.0566		
Habitat Means			120.667	69.958		61.333	36.186	+			5.192	2.890		4.436	3.245	+			
Fisher's			Power	0.266		Power-50%	1.409	P-value	0.1468		Power	0.131		Power-50%	0.359	P-value	0.1914x		
Stouffer's			Power	0.391		Power-50%	1.608	P-value	0.3515		Power	0.234		Power-50%	0.604	P-value	0.3979		
4825C/1424	3	5	8.000	5.831	6	0.000	0.000	-	0.1867	5	0.142	0.130	6	0.000	0.000	-	0.1946		
453C/453	3	6	6.667	4.216	5	16.000	13.638	-	0.7708	6	0.157	0.099	5	0.744	0.679	-	0.7496		
601C/601	3	5	206.000	96.726	6	10.000	5.164	-	0.0546	5	20.862	13.599	6	1.262	0.860	-	0.1568		
598C/598	3	5	36.000	22.935	6	43.333	31.903	-	0.9538	5	1.278	0.781	6	1.055	0.772	-	0.9801		
1522C/1522	3	6	21.667	14.240	6	8.333	1.667	-	0.8047	6	3.483	2.975	6	0.285	0.188	+	0.8855		
Habitat Means			55.667	28.790		15.533	10.474	+			5.184	3.517		0.669	0.500	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0986		Power	0.229		Power-50%	0.351	P-value	0.1848		
Stouffer's			Power	0.370		Power-50%	0.681	P-value	0.3155		Power	0.126		Power-50%	0.520	P-value	0.3490		

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	728.333	359.745	6	158.333	100.711	+	0.3166	6	99.550	69.679	6	0.910	0.692	+	0.1499		
453C/453	1	6	833.333	527.381	6	53.333	43.487	+	0.2409	6	18.377	12.583	6	2.512	2.253	+	0.1494		
601C/601	1	6	3187.783	1474.962	6	1065.000	370.835	+	0.6045	6	310.522	115.794	6	100.078	40.637	+	0.6831		
598C/598	1	6	1551.667	483.407	6	2566.667	1078.489	-	0.4962	6	142.880	72.871	6	203.738	104.133	-	0.4628		
1522C/1522	1	6	2610.000	1611.394	6	7236.667	3696.561	-	0.2470	6	158.008	102.299	6	200.573	70.678	-	0.3776		
Habitat Means			1782.223	891.338		2216.000	1058.017	+			145.867	74.645		101.562	43.679	+			
Fisher's			Power	0.103		Power-50%	1.214	P-value	0.3462 y		Power	0.133		Power-50%	0.173	P-value	0.3375		
Stouffer's			Power	0.269		Power-50%	1.498	P-value	0.4553		Power	0.247		Power-50%	0.460	P-value	0.5230		
4825C/1424	2	6	756.117	488.126	6	0.000	0.000	+	0.0108	6	18.211	9.584	6	0.000	0.000	+	0.0087		
453C/453	2	6	573.333	243.045	6	723.333	453.833	-	0.2510	6	19.892	14.690	6	30.137	18.749	-	0.3816		
601C/601	2	6	3965.550	2111.368	6	3070.000	1551.505	+	0.8054	6	262.795	104.811	6	204.885	97.649	+	0.9917		
598C/598	2	6	4034.450	1883.067	6	3473.333	1390.781	+	0.6459	6	242.472	72.988	6	131.095	60.309	+	0.1177		
1522C/1522	2	6	2151.667	1018.886	6	4181.667	2175.136	-	0.2489	6	221.637	114.889	6	212.567	142.142	+	0.4657		
Habitat Means			2296.223	1148.898		2289.667	1114.251	+			153.001	63.392		115.737	63.770	+			
Fisher's			Power	0.000		Power-50%	3.000	P-value	0.1300		Power	---		Power-50%	---	P-value	0.0192		
Stouffer's			Power	0.000		Power-50%	3.000	P-value	0.5324		Power	0.000		Power-50%	0.000	P-value	0.1022		
4825C/1424	3	5	2.000	2.000	6	3.333	2.108	-	0.8308	5	0.040	0.040	6	0.040	0.040	+	0.9733		
453C/453	3	6	48.333	46.362	5	62.000	47.476	-	0.4477	6	1.497	1.489	5	2.546	2.351	-	0.3733		
601C/601	3	5	2108.000	1183.163	6	2441.333	982.821	-	0.7965	5	236.334	143.007	6	128.927	63.175	+	0.9822		
598C/598	3	5	3303.320	1134.360	6	2964.366	1315.836	+	0.7896	5	258.302	59.203	6	154.349	59.548	+	0.6332		
1522C/1522	3	6	1781.667	972.462	6	180.000	154.380	+	0.0791	6	202.909	91.227	6	19.162	16.146	+	0.0740		
Habitat Means			1448.664	667.669		1130.206	500.524	-			139.816	58.993		61.005	28.252	+			
Fisher's			Power	0.003		Power-50%	0.057	P-value	0.6604x		Power	0.038		Power-50%	0.034	P-value	0.2809		
Stouffer's			Power	0.011		Power-50%	0.156	P-value	0.5319		Power	0.002		Power-50%	0.131	P-value	0.3937		

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

Table D-67, Page 2, December 21, 1990

Table D-67. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, July 1990. (Continued.)

Lacuna spp. - abundance (#/m ²)										Lacuna spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.003	0.003	6	0.000	0.000	-	0.3632		
453C/453	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.667	0.667		0.000	0.000	-			0.001	0.001		0.000	0.000	-			
Fisher's		Power	---		Power-50%	---	P-value	0.5362		Power	---		Power-50%	---	P-value	0.5362			
Stouffer's		Power	---		Power-50%	---	P-value	0.4498		Power	---		Power-50%	---	P-value	0.4498			
4825C/1424	2	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.000	0.000	6	0.003	0.003	-	0.4282		
453C/453	2	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	-	0.3632		
601C/601	2	6	5.000	5.000	6	0.000	0.000	+	0.3632	6	0.008	0.008	6	0.000	0.000	-	0.3632		
598C/598	2	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.002	0.002	-	0.3632		
1522C/1522	2	6	5.000	5.000	6	20.000	10.328	-	0.2443	6	0.003	0.003	6	0.017	0.017	-	0.3944		
Habitat Means			2.667	2.667		5.000	3.066	-			0.002	0.002		0.004	0.003	-			
Fisher's		Power	0.093		Power-50%	---	P-value	0.4578		Power	0.005		Power-50%	---	P-value	0.3942			
Stouffer's		Power	0.000		Power-50%	---	P-value	0.3993		Power	0.000		Power-50%	---	P-value	0.3821			
4825C/1424	3	5	126.000	88.182	6	1418.333	760.756	-	0.0096	5	0.044	0.031	6	1.988	1.269	-	0.0103		
453C/453	3	6	736.667	255.626	5	26.000	21.119	+	0.0218	6	1.307	0.491	5	0.014	0.014	-	0.0028		
601C/601	3	5	1704.000	1390.973	6	186.667	98.849	+	0.5591	5	1.770	1.337	6	0.115	0.052	-	0.5021		
598C/598	3	5	34.000	17.776	6	31.667	18.693	-	0.9958	5	0.048	0.029	6	0.022	0.014	-	0.7127		
1522C/1522	3	6	68.333	32.906	6	776.667	387.080	-	0.1240	6	0.065	0.034	6	0.832	0.368	-	0.1248		
Habitat Means			533.800	357.093		487.867	257.299	+			0.647	0.384		0.594	0.343	-			
Fisher's		Power	0.129		Power-50%	0.318	P-value	0.2171*		Power	---		Power-50%	---	P-value	0.0531*			
Stouffer's		Power	0.208		Power-50%	0.525	P-value	0.2493		Power	---		Power-50%	---	P-value	0.0884			

Littorina spp. - abundance (#/m ²)										Littorina spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	515.000	194.829	6	116.667	60.700	+	0.2028	6	10.167	3.654	6	3.702	2.080	+	0.4767		
453C/453	1	6	701.667	369.327	6	360.000	209.077	+	0.2736	6	55.952	27.978	6	34.580	10.838	-	0.5583		
601C/601	1	6	610.000	232.995	6	538.333	218.623	+	0.8173	6	15.063	4.892	6	29.450	8.518	-	0.1722		
598C/598	1	6	351.667	117.201	6	310.000	158.682	+	0.8932	6	26.008	14.952	6	7.067	3.007	-	0.2084		
1522C/1522	1	6	295.000	129.737	6	1001.667	311.014	-	0.0263	6	17.775	6.009	6	44.563	14.205	-	0.2534		
Habitat Means			494.667	208.818		465.333	191.619	-			24.993	11.497		23.872	7.730	-			
Fisher's		Power	0.000		Power-50%	0.001	P-value	0.2861*		Power	0.000		Power-50%	0.000	P-value	0.4066			
Stouffer's		Power	0.003		Power-50%	0.006	P-value	0.3252		Power	0.000		Power-50%	0.004	P-value	0.2026			
4825C/1424	2	6	1402.233	1362.365	6	110.000	52.090	+	0.6371	6	5.120	4.864	6	1.112	0.748	-	0.1797		
453C/453	2	6	765.000	362.314	6	340.000	89.443	+	0.9158	6	47.880	36.478	6	24.565	14.418	-	0.9812		
601C/601	2	6	225.000	74.375	6	631.667	127.002	+	0.0695	6	5.029	1.744	6	14.343	4.242	-	0.3917		
598C/598	2	6	460.000	211.293	6	251.667	67.745	+	0.7063	6	20.679	10.362	6	4.010	2.321	-	0.2747		
1522C/1522	2	6	380.000	176.503	6	2938.333	1446.549	-	0.0336	6	12.565	7.548	6	25.203	11.025	-	0.1076		
Habitat Means			646.447	437.370		854.333	356.566	+			18.255	12.199		13.847	6.551	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.8122*		Power	0.000		Power-50%	0.000	P-value	0.3763			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.6730		Power	0.000		Power-50%	0.000	P-value	0.3033			
4825C/1424	3	5	148.000	91.291	6	673.333	393.223	-	0.1440	5	0.188	0.108	6	0.757	0.385	-	0.1334		
453C/453	3	6	1378.333	578.028	5	494.000	99.126	+	0.7343	6	2.448	1.003	5	10.450	5.153	-	0.2129		
601C/601	3	5	464.000	331.460	6	161.667	81.952	+	0.6026	5	3.604	2.625	6	1.689	1.048	-	0.3854		
598C/598	3	5	168.000	138.795	6	73.883	41.569	+	0.7929	5	2.178	1.856	6	0.941	0.782	-	0.7678		
1522C/1522	3	6	182.217	90.566	6	463.333	336.191	-	0.3778	6	3.470	3.157	6	2.478	1.543	-	0.5694		
Habitat Means			468.110	246.028		373.243	190.412	+			2.378	1.750		3.263	1.782	-			
Fisher's		Power	0.053		Power-50%	0.075	P-value	0.7421		Power	0.010		Power-50%	0.030	P-value	0.6207*			
Stouffer's		Power	0.211		Power-50%	0.303	P-value	0.4532		Power	0.236		Power-50%	0.240	P-value	0.6260			

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

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Table D-67. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, July 1990. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	145.000	59.316	6	28.333	19.394	+	0.2170	6	5.427	2.960	6	1.382	0.778	-	0.4939		
453C/453	1	6	568.333	340.758	6	155.000	46.098	+	0.8005	6	53.655	27.657	6	28.275	9.370	-	0.5886		
601C/601	1	6	151.117	104.584	6	206.667	61.896	-	0.1236	6	6.493	3.641	6	19.220	6.556	-	0.0989		
598C/598	1	6	238.333	107.778	6	78.333	48.057	+	0.2847	6	22.857	14.702	6	3.028	1.632	-	0.3391		
1522C/1522	1	6	186.667	81.227	6	608.333	137.293	-	0.0534	6	15.693	5.816	6	35.505	12.813	-	0.2328		
Habitat Means			257.890	138.733		215.333	62.548	+			20.625	10.955		17.482	6.230	-			
Fisher's		Power	0.179		Power-50%	0.402	P-value	0.4100x		Power	0.130		Power-50%	0.405	P-value	0.5187x			
Stouffer's		Power	0.333		Power-50%	0.691	P-value	0.3528		Power	0.161		Power-50%	0.696	P-value	0.3107			
4825C/1424	2	6	842.783	812.960	6	38.333	34.488	+	0.1826	6	3.903	3.753	6	0.315	0.202	-	0.3414		
453C/453	2	6	520.000	317.763	6	150.000	87.101	+	0.2284	6	44.825	35.995	6	19.952	15.024	-	0.1827		
601C/601	2	6	61.667	34.002	6	105.000	34.327	-	0.2734	6	1.468	0.902	6	4.263	1.868	-	0.0685		
598C/598	2	6	271.667	143.458	6	133.333	59.198	+	0.6191	6	14.862	8.361	6	1.865	1.319	-	0.1043		
1522C/1522	2	6	215.000	127.534	6	1685.000	1171.323	-	0.0189	6	9.473	6.388	6	16.265	10.060	-	0.1169		
Habitat Means			382.223	287.143		422.333	277.287	+			14.906	11.080		8.532	5.695	-			
Fisher's		Power	0.000		Power-50%	0.012	P-value	0.2997xy		Power	0.000		Power-50%	0.012	P-value	0.1547x			
Stouffer's		Power	0.001		Power-50%	0.133	P-value	0.3198		Power	---		Power-50%	---	P-value	0.0881			
4825C/1424	3	5	124.000	90.144	6	616.667	397.322	-	0.2569	5	0.122	0.071	6	0.558	0.405	-	0.2741		
453C/453	3	6	1210.000	595.623	5	394.000	124.000	-	0.5780	6	1.058	0.483	5	7.942	4.142	-	0.1701		
601C/601	3	5	280.000	198.972	6	48.333	25.353	+	0.2394	5	1.806	1.729	6	0.240	0.230	-	0.2166		
598C/598	3	5	104.000	99.076	6	15.000	8.062	+	0.9055	5	1.284	1.279	6	0.088	0.081	-	0.7348		
1522C/1522	3	6	150.000	87.293	6	316.667	242.001	-	0.5172	6	3.254	3.081	6	1.655	1.202	-	0.5998		
Habitat Means			373.600	214.222		278.133	159.348	+			1.505	1.329		2.097	1.212	-			
Fisher's		Power	0.091		Power-50%	0.126	P-value	0.5145		Power	0.085		Power-50%	0.088	P-value	0.5177			
Stouffer's		Power	0.166		Power-50%	0.294	P-value	0.3567		Power	0.226		Power-50%	0.237	P-value	0.5926			

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	370.000	163.361	6	88.333	43.237	+	0.1584	6	4.740	2.360	6	2.320	1.303	-	0.3463		
453C/453	1	6	133.333	80.069	6	205.000	179.272	+	0.7171	6	2.297	0.989	6	6.305	5.395	-	0.9963		
601C/601	1	6	458.883	184.001	6	331.667	181.042	+	0.5208	6	8.570	2.657	6	10.230	5.736	-	0.8283		
598C/598	1	6	113.333	50.310	6	231.667	113.385	+	0.5502	6	4.152	1.971	6	4.038	1.508	-	0.4008		
1522C/1522	1	6	108.333	60.960	6	393.333	201.555	-	0.1536	6	2.082	1.037	6	9.058	4.538	-	0.0914		
Habitat Means			236.776	107.740		250.000	143.698	-			4.368	1.763		6.390	3.696	-			
Fisher's		Power	0.000		Power-50%	0.021	P-value	0.3950		Power	0.000		Power-50%	0.012	P-value	0.4050			
Stouffer's		Power	0.000		Power-50%	0.165	P-value	0.2717		Power	0.000		Power-50%	0.142	P-value	0.6302			
4825C/1424	2	6	559.450	549.474	6	71.667	34.968	+	0.6965	6	1.217	1.114	6	0.797	0.560	-	0.8690		
453C/453	2	6	245.000	138.341	6	190.000	74.431	+	0.7208	6	3.035	1.078	6	4.613	0.861	-	0.1873		
601C/601	2	6	163.333	50.244	6	526.667	103.752	-	0.2496	6	3.561	1.190	6	10.080	3.137	-	0.1422		
598C/598	2	6	188.333	77.917	6	118.333	37.454	+	0.9575	6	5.817	3.006	6	2.145	1.050	-	0.1046		
1522C/1522	2	6	165.000	87.398	6	1253.333	490.854	-	0.0260	6	3.092	1.419	6	8.938	2.834	-	0.2801		
Habitat Means			264.223	180.675		432.000	148.292	+			3.348	1.561		5.315	1.688	-			
Fisher's		Power	0.001		Power-50%	0.003	P-value	0.8222xy		Power	0.000		Power-50%	0.003	P-value	0.1133			
Stouffer's		Power	0.001		Power-50%	0.001	P-value	0.6716		Power	0.000		Power-50%	0.001	P-value	0.2763			
4825C/1424	3	5	24.000	19.131	6	56.667	15.202	-	0.1248	5	0.066	0.043	6	0.198	0.053	-	0.1769		
453C/453	3	6	168.333	105.211	5	100.000	36.606	+	0.4159	6	1.390	1.034	5	2.508	1.328	-	0.1979		
601C/601	3	5	184.000	135.004	6	113.333	66.064	+	0.4706	5	1.798	0.963	6	1.449	0.879	-	0.2569		
598C/598	3	5	64.000	41.665	6	58.883	43.162	+	0.8017	5	0.894	0.594	6	0.852	0.793	-	0.7282		
1522C/1522	3	6	32.217	16.613	6	146.667	96.529	-	0.4798	6	0.216	0.101	6	0.823	0.405	-	0.5886		
Habitat Means			94.510	63.525		95.110	51.523	-			0.873	0.547		1.166	0.692	-			
Fisher's		Power	0.056		Power-50%	0.285	P-value	0.5762 y		Power	0.000		Power-50%	0.231	P-value	0.2179			
Stouffer's		Power	0.090		Power-50%	0.590	P-value	0.3325		Power	0.000		Power-50%	0.575	P-value	0.3260			

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

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Table D-67. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, July 1990. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	423.333	415.361	6	5.000	5.000	+	0.3014	6	32.448	30.489	6	0.352	0.352	-	0.1951		
453C/453	1	6	948.333	573.837	6	100.000	67.626	+	0.4041	6	27.253	19.242	6	26.910	18.058	-	0.9978		
601C/601	1	6	731.117	416.449	6	455.000	249.062	+	0.7492	6	102.803	74.432	6	238.183	156.079	-	0.6469		
598C/598	1	6	700.000	232.952	6	850.000	427.606	-	0.9514	6	52.890	26.037	6	274.837	245.805	-	0.9821		
1522C/1522	1	6	116.667	100.984	6	1268.333	435.992	-	0.0118	6	43.258	36.894	6	137.503	76.958	-	0.0600		
Habitat Means			583.890	347.917		535.667	237.057				51.730	37.419		135.557	99.450				
Fisher's			Power	0.209		Power-50%	0.243		P-value 0.4188		Power	0.000		Power-50%	0.338		P-value 0.2667		
Stouffer's			Power	0.389		Power-50%	0.467		P-value 0.4644		Power	0.000		Power-50%	0.536		P-value 0.3697		
4825C/1424	2	6	975.000	747.002	6	1300.000	1099.415	-	0.9174	6	24.054	16.425	6	4.947	4.512	-	0.6960		
453C/453	2	6	15691.667	12173.703	6	3126.667	1724.354	+	0.5314	6	209.043	167.840	6	72.183	41.073	-	0.5780		
601C/601	2	6	1770.550	722.256	6	1273.333	377.974	+	0.8345	6	67.226	28.960	6	441.667	302.563	-	0.1241		
598C/598	2	6	1348.333	386.854	6	1718.333	577.312	-	0.7236	6	214.882	73.354	6	322.762	171.590	-	0.5709		
1522C/1522	2	6	1665.000	576.205	6	18210.000	8371.924	-	0.0658	6	643.880	394.387	6	1127.280	736.313	-	0.7592		
Habitat Means			4290.110	2921.204		5125.667	2430.196				231.817	136.193		393.768	251.210				
Fisher's			Power	0.000		Power-50%	0.000		P-value 0.2772		Power	0.000		Power-50%	0.000		P-value 0.3169		
Stouffer's			Power	0.000		Power-50%	0.000		P-value 0.3856		Power	0.000		Power-50%	0.000		P-value 0.3050		
4825C/1424	3	5	1358.000	612.629	6	9045.000	2031.047	-	0.0062	5	2.628	0.873	6	21.475	3.977	-	0.0669		
453C/453	3	6	19688.334	7524.590	5	3278.000	1923.833	+	0.1232	6	189.583	122.629	5	73.510	57.330	-	0.8639		
601C/601	3	5	4916.000	1945.604	6	1745.000	403.210	+	0.3575	5	280.000	159.583	6	301.194	272.613	-	0.2966		
598C/598	3	5	2356.000	1129.398	6	1658.817	318.282	+	0.8975	5	235.343	148.414	6	37.577	15.366	-	0.0766		
1522C/1522	3	6	1750.000	663.879	6	16138.333	6305.114	-	0.0142	6	103.926	73.313	6	69.955	32.000	-	0.7876		
Habitat Means			6013.667	2375.220		6373.030	2196.297	+			162.296	100.962		100.742	76.257				
Fisher's			Power	0.000		Power-50%	0.000		P-value 0.3862		Power	0.000		Power-50%	0.000		P-value 0.4110		
Stouffer's			Power	0.000		Power-50%	0.000		P-value 0.4049		Power	0.000		Power-50%	0.000		P-value 0.1665		

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	-	0.3632		
453C/453	1	6	3.333	2.108	6	0.000	0.000	+	0.1747	6	0.013	0.013	6	0.000	0.000	-	0.3182		
601C/601	1	6	3.333	3.333	6	1.667	1.667	+	0.8708	6	0.000	0.000	6	0.000	0.000	-	1.0000		
598C/598	1	6	0.000	0.000	6	5.000	5.000	-	0.3632	6	0.000	0.000	6	0.005	0.005	-	0.3632		
1522C/1522	1	6	0.000	0.000	6	8.333	5.426	-	0.1757	6	0.000	0.000	6	0.008	0.005	-	0.1757		
Habitat Means			1.667	1.422		3.000	2.419	+			0.003	0.003		0.003	0.002				
Fisher's			Power	0.977		Power-50%	0.849		P-value 0.3949		Power	0.010		Power-50%	0.006		P-value 0.4053		
Stouffer's			Power	0.209		Power-50%	0.883		P-value 0.5412		Power	0.002		Power-50%	0.024		P-value 0.3701		
4825C/1424	2	6	990.550	964.680	6	1.667	1.667	+	0.1179	6	0.598	0.584	6	0.000	0.000	-	0.1245		
453C/453	2	6	583.333	583.333	6	31.667	20.723	+	0.7012	6	0.383	0.383	6	0.033	0.016	-	0.6261		
601C/601	2	6	6.667	4.944	6	13.333	8.819	-	0.8654	6	0.010	0.006	6	0.008	0.008	+	0.6728		
598C/598	2	6	26.667	24.721	6	83.333	54.263	-	0.6912	6	0.020	0.020	6	0.065	0.041	-	0.5279		
1522C/1522	2	6	43.333	27.889	6	925.000	449.494	-	0.0474	6	0.048	0.031	6	0.815	0.402	-	0.1386		
Habitat Means			330.110	321.113		211.000	106.993	-			0.212	0.205		0.184	0.093				
Fisher's			Power	0.036		Power-50%	0.295		P-value 0.2674		Power	0.204		Power-50%	0.169		P-value 0.3724		
Stouffer's			Power	0.005		Power-50%	0.408		P-value 0.3674		Power	0.026		Power-50%	0.275		P-value 0.5903		
4825C/1424	3	5	1246.000	817.793	6	2516.667	1538.759	-	0.5709	5	0.864	0.595	6	1.927	1.274	-	0.4670		
453C/453	3	6	3060.000	1768.918	5	102.000	84.935	+	0.0586	6	2.038	1.140	5	0.062	0.055	-	0.0223		
601C/601	3	5	596.000	407.929	6	1652.667	591.976	-	0.1373	5	0.554	0.429	6	1.234	0.429	-	0.1819		
598C/598	3	5	144.000	108.517	6	741.667	227.895	-	0.0189	5	0.168	0.140	6	0.412	0.152	-	0.0467		
1522C/1522	3	6	1458.333	836.789	6	5148.333	2216.471	-	0.0949	6	1.213	0.579	6	4.617	2.049	-	0.1499		
Habitat Means			1300.867	787.989		2032.267	932.007	-			0.967	0.577		1.650	0.792				
Fisher's			Power	---		Power-50%	---		P-value 0.0095		Power	---		Power-50%	---		P-value 0.0255		
Stouffer's			Power	---		Power-50%	0.134		P-value 0.0560		Power	0.000		Power-50%	0.139		P-value 0.1489		

* No tests were conducted for this site pair.
y Direction of difference between habitat means is different than direction of overall test.
z Only one site pair.

Table D-67, Page 13, December 2, 1991

Table D-67. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, July 1990. (Continued.)

Pagurus spp. - abundance (#/m ²)										Pagurus spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	0.000	0.000	6	0.000	0.000	0	1.0000	6	0.000	0.000	6	0.000	0.000	0	1.0000		
453C/453	1	6	0.000	0.000	6	0.000	0.000	0	1.0000	6	0.000	0.000	6	0.000	0.000	0	1.0000		
601C/601	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.025	0.025	-	0.3632		
598C/598	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.338	0.338	-	0.3632		
1522C/1522	1	6	0.000	0.000	6	43.333	27.889	-	0.1750	6	0.000	0.000	6	1.797	1.178	-	0.1749		
Habitat Means			0.000	0.000		9.333	6.245	-			0.000	0.000		0.432	0.308	-			
Fisher's	Power		1.000		Power-50%			P-value	0.1527	Power	1.000		Power-50%			P-value	0.1526		
Stouffer's	Power		1.000		Power-50%			P-value	0.1154	Power	1.000		Power-50%			P-value	0.1154		
4825C/1424	2	6	243.333	184.782	6	1.667	1.667	-	0.1161	6	12.467	9.250	6	0.142	0.142	-	0.1681		
453C/453	2	6	25.000	11.180	6	63.333	23.898	-	0.5845	6	1.868	0.923	6	4.185	1.809	-	0.7891		
601C/601	2	6	0.000	0.000	6	48.333	34.488	-	0.0103	6	0.000	0.000	6	6.643	3.007	-	0.0057		
598C/598	2	6	20.550	13.341	6	13.333	11.450	+	0.8226	6	0.518	0.337	6	1.085	1.085	-	0.6761		
1522C/1522	2	6	25.000	13.354	6	45.000	14.776	-	0.3400	6	0.970	0.626	6	4.253	1.773	-	0.0889		
Habitat Means			62.777	44.531		34.333	17.256	-			3.165	2.227		3.262	1.563	-			
Fisher's	Power		---		Power-50%			P-value	0.0599 y	Power	---		Power-50%			P-value	0.0143		
Stouffer's	Power		0.004		Power-50%		0.601	P-value	0.2451	Power	0.011		Power-50%		0.374	P-value	0.1025		
4825C/1424	3	5	20.000	8.367	6	13.333	7.601	+	0.5688	5	2.616	1.261	6	1.760	1.111	-	0.5376		
453C/453	3	6	45.000	12.315	5	76.000	53.814	-	0.9354	6	3.173	2.904	5	12.730	12.124	-	0.6701		
601C/601	3	5	54.000	35.581	6	10.000	6.325	+	0.1760	5	4.762	2.916	6	1.618	1.048	-	0.6036		
598C/598	3	5	31.340	20.216	6	11.667	4.773	+	0.7873	5	8.141	5.023	6	6.618	2.692	-	0.7741		
1522C/1522	3	6	93.883	89.906	6	30.000	10.646	+	0.3151	6	2.704	2.595	6	3.838	1.687	-	0.2210		
Habitat Means			48.845	33.277		28.200	16.632	+			4.279	2.940		5.313	3.732	-			
Fisher's	Power		0.022		Power-50%		0.084	P-value	0.1642	Power	0.002		Power-50%		0.006	P-value	0.6315 y		
Stouffer's	Power		0.044		Power-50%		0.264	P-value	0.2215	Power	0.003		Power-50%		0.172	P-value	0.5207		

Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	1.667	1.667	6	41.667	19.047	-	0.0411	6	8.288	8.288	6	76.130	33.078	-	0.0818		
453C/453	1	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	7.757	7.757	6	0.000	0.000	+	0.3632		
601C/601	1	6	0.000	0.000	6	0.000	0.000	0	1.0000	6	0.000	0.000	6	0.000	0.000	0	1.0000		
598C/598	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	2.145	2.145	6	0.000	0.000	+	0.3632		
1522C/1522	1	6	0.000	0.000	6	6.667	4.216	-	0.1747	6	0.000	0.000	6	3.680	2.340	-	0.1747		
Habitat Means			1.333	1.333		9.667	4.653	-			3.638	3.638		15.962	7.084	-			
Fisher's	Power		0.040		Power-50%			P-value	0.1383	Power	0.024		Power-50%			P-value	0.1992		
Stouffer's	Power		0.000		Power-50%			P-value	0.7331	Power	0.000		Power-50%			P-value	0.7467		
4825C/1424	2	6	11.667	4.773	6	20.000	7.746	-	0.7096	6	20.930	10.640	6	35.298	14.809	-	0.8830		
453C/453	2	6	28.333	9.804	6	10.000	6.325	+	0.3225	6	17.812	5.844	6	8.052	5.115	-	0.5093		
601C/601	2	6	1.667	1.667	6	3.333	2.108	-	0.5490	6	11.238	11.238	6	4.200	3.082	-	0.6535		
598C/598	2	6	11.667	7.923	6	1.667	1.667	+	0.2151	6	17.763	11.380	6	1.187	1.187	-	0.2127		
1522C/1522	2	6	0.000	0.000	6	11.667	6.009	-	0.0809	6	0.000	0.000	6	18.955	13.194	-	0.0822		
Habitat Means			10.667	4.833		9.333	4.771	-			13.549	7.820		13.538	7.477	-			
Fisher's	Power		0.156		Power-50%		0.662	P-value	0.3090 y	Power	0.102		Power-50%		0.575	P-value	0.3811 x		
Stouffer's	Power		0.134		Power-50%		0.807	P-value	0.8249	Power	0.083		Power-50%		0.759	P-value	0.1493		
4825C/1424	3	5	18.000	12.000	6	1.667	1.667	+	0.2016	5	37.634	23.108	6	0.022	0.022	+	0.1943		
453C/453	3	6	13.333	7.601	5	4.000	2.449	+	0.3013	6	2.763	1.583	5	2.570	1.663	+	0.5877		
601C/601	3	5	4.000	4.000	6	5.000	3.416	-	0.7293	5	8.188	8.188	6	11.037	7.265	-	0.6755		
598C/598	3	5	2.000	2.000	6	48.333	42.381	-	0.0607	5	0.034	0.034	6	128.277	110.442	-	0.0509		
1522C/1522	3	6	0.000	0.000	6	3.333	3.333	-	0.5373	6	0.000	0.000	6	7.277	7.277	-	0.3632		
Habitat Means			7.467	5.120		12.467	10.649	-			9.724	6.583		29.837	25.334	-			
Fisher's	Power		0.126		Power-50%		0.633	P-value	0.2735	Power	0.308		Power-50%		0.303	P-value	0.1811		
Stouffer's	Power		0.049		Power-50%		0.748	P-value	0.1739	Power	---		Power-50%		---	P-value	0.0911		

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

Table D-67, Page 15, December 21, 1994

Table D-67. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, July 1990. (Continued.)

Nucella lima - abundance (#/m ²)										Nucella lima - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
453C/453	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	2.900	2.900	6	0.000	0.000	-	0.3632
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
598C/598	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	2.145	2.145	6	0.000	0.000	-	0.3632
1522C/1522	1	6	0.000	0.000	6	5.000	3.416	-	0.1784	6	0.000	0.000	6	3.177	2.015	-	0.1747
Habitat Means			0.667	0.667		1.000	0.683	+			1.009	1.009		0.635	0.403	-	
Fisher's	Power		0.896		Power 50%	---	P-value	0.4597 y		Power	0.971		Power 50%	---	P-value	0.4601 y	
Stouffer's	Power		0.211		Power 50%	---	P-value	0.1818		Power	0.998		Power 50%	---	P-value	0.1825	
4825C/1424	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
453C/453	2	6	11.667	6.540	6	10.000	6.325	+	0.9135	6	8.253	5.210	6	8.052	5.115	-	0.9956
601C/601	2	6	0.000	0.000	6	3.333	2.108	-	0.1747	6	0.000	0.000	6	4.200	3.082	-	0.1755
598C/598	2	6	11.667	7.923	6	1.667	1.667	+	0.2151	6	17.763	11.380	6	1.187	1.187	-	0.2127
1522C/1522	2	6	0.000	0.000	6	5.000	5.000	-	0.3632	6	0.000	0.000	6	5.492	5.492	-	0.3632
Habitat Means			4.667	2.893		4.000	3.020	-			5.203	3.318		3.786	2.975	-	
Fisher's	Power		0.715		Power-50%	0.050	P-value	0.3481 y		Power	0.550		Power-50%	0.041	P-value	0.3371 y	
Stouffer's	Power		0.559		Power-50%	0.048	P-value	0.6974		Power	0.081		Power-50%	0.053	P-value	0.6801	
4825C/1424	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
453C/453	3	6	0.000	0.000	5	4.000	2.449	-	0.1778	6	0.000	0.000	5	2.570	1.663	-	0.1781
601C/601	3	5	4.000	4.000	6	5.000	3.416	-	0.7321	5	8.188	8.188	6	11.037	7.265	-	0.6755
598C/598	3	5	0.000	0.000	6	46.667	42.714	-	0.1147	5	0.000	0.000	6	120.198	111.896	-	0.0811
1522C/1522	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.800	0.800		11.133	9.716	-			1.638	1.638		26.761	24.165	-	
Fisher's	Power		0.055		Power-50%	---	P-value	0.1201		Power	---		Power-50%	---	P-value	0.0943	
Stouffer's	Power		---		Power-50%	---	P-value	0.0218		Power	---		Power-50%	---	P-value	0.0152	

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

Table D-67, Page 17, December 21, 1994

Nucella lamellosa - abundance (#/m ²)										Nucella lamellosa - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	1.667	1.667	6	41.667	19.047	-	0.0411	6	8.288	8.288	6	76.130	33.078	-	0.0818
453C/453	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	4.857	4.857	6	0.000	0.000	-	0.3632
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1522C/1522	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.503	0.503	-	0.3632
Habitat Means			0.667	0.667		8.667	4.143	-			2.629	2.629		15.327	6.716	-	
Fisher's	Power		0.069		Power-50%	---	P-value	0.1574		Power	0.053		Power-50%	---	P-value	0.2249	
Stouffer's	Power		0.000		Power-50%	---	P-value	0.5039		Power	0.000		Power-50%	---	P-value	0.5206	
4825C/1424	2	6	11.667	4.773	6	20.000	7.746	-	0.7096	6	20.930	10.640	6	35.298	14.809	-	0.8830
453C/453	2	6	8.333	6.540	6	0.000	0.000	+	0.1868	6	7.700	4.957	6	0.000	0.000	-	0.1748
601C/601	2	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	11.238	11.238	6	0.000	0.000	-	0.3632
598C/598	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1522C/1522	2	6	0.000	0.000	6	6.667	4.944	-	0.1830	6	0.000	0.000	6	13.463	13.172	-	0.1868
Habitat Means			4.333	2.596		5.333	2.538	-			7.974	5.367		9.752	5.596	-	
Fisher's	Power		0.022		Power 50%	0.272	P-value	0.5475		Power	0.069		Power-50%	0.314	P-value	0.3549 y	
Stouffer's	Power		0.000		Power-50%	0.428	P-value	0.7198		Power	0.002		Power-50%	0.437	P-value	0.2625	
4825C/1424	3	5	18.000	12.000	6	0.000	0.000	+	0.1801	5	37.634	23.108	6	0.000	0.000	-	0.1778
453C/453	3	6	1.667	1.667	5	0.000	0.000	+	0.3632	6	1.305	1.305	5	0.000	0.000	-	0.3632
601C/601	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
598C/598	3	5	0.000	0.000	6	1.667	1.667	-	0.3632	5	0.000	0.000	6	8.078	8.078	-	0.3632
1522C/1522	3	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	7.277	7.277	-	0.3632
Habitat Means			3.933	2.733		1.000	1.000	+			7.788	4.883		3.071	3.071	-	
Fisher's	Power		0.409		Power-50%	0.216	P-value	0.4049		Power	0.769		Power-50%	0.495	P-value	0.4027	
Stouffer's	Power		0.000		Power-50%	0.222	P-value	0.5895		Power	0.001		Power-50%	0.492	P-value	0.5891	

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

Table D-67, Page 18, December 21, 1994

Table D-67. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, July 1990. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	1.667	1.667	6	0.000	0.000	-	0.3632	6	0.032	0.032	6	0.000	0.000	-	0.3632		
453C/453	1	6	16.667	6.667	6	0.000	0.000	-	0.0284	6	0.087	0.061	6	0.000	0.000	-	0.0739		
601C/601	1	6	106.667	96.400	6	121.667	119.678	-	0.8857	6	0.258	0.258	6	0.118	0.111	-	0.8281		
598C/598	1	6	0.000	0.000	6	0.000	0.000	-	1.0000	6	0.000	0.000	6	0.000	0.000	-	1.0000		
1522C/1522	1	6	13.333	13.333	6	16.667	11.155	-	0.4224	6	0.105	0.105	6	0.012	0.007	-	0.7325		
Habitat Means			27.667	23.613		27.667	26.167	+			0.096	0.091		0.026	0.024	-			
Fisher's		Power	0.393		Power-50%	0.276	P-value	0.1338	y	Power	0.084		Power-50%	0.016	P-value	0.1261	y		
Stouffer's		Power	0.575		Power-50%	0.446	P-value	0.1380		Power	0.001		Power-50%	0.131	P-value	0.1160			
4825C/1424	2	6	72.217	34.061	6	1.667	1.667	-	0.0932	6	0.288	0.163	6	0.008	0.008	-	0.1005		
453C/453	2	6	1245.000	762.556	6	191.667	87.194	-	0.5214	6	2.208	1.360	6	0.242	0.086	-	0.5697		
601C/601	2	6	35.000	15.221	6	746.667	694.760	-	0.2488	6	0.068	0.048	6	0.230	0.110	-	0.2920		
598C/598	2	6	130.550	74.896	6	278.333	194.447	-	0.7324	6	0.410	0.312	6	0.647	0.494	-	0.6518		
1522C/1522	2	6	481.667	412.112	6	846.667	335.745	-	0.3820	6	0.317	0.263	6	1.453	0.841	-	0.3490		
Habitat Means			392.887	259.769		413.000	262.763	-			0.658	0.429		0.516	0.308	-			
Fisher's		Power	0.004		Power-50%	0.328	P-value	0.4241	x	Power	0.002		Power-50%	0.205	P-value	0.4098	y		
Stouffer's		Power	0.005		Power-50%	0.654	P-value	0.4441		Power	0.005		Power-50%	0.566	P-value	0.3978			
4825C/1424	3	5	310.000	158.493	6	258.333	105.717	-	0.6593	5	0.548	0.317	6	0.947	0.435	-	0.8808		
453C/453	3	6	2555.000	603.538	5	1286.000	401.181	-	0.2698	6	4.882	1.283	5	2.112	0.740	-	0.2555		
601C/601	3	5	2486.000	1497.467	6	560.000	356.674	-	0.7339	5	1.802	0.802	6	0.623	0.139	-	0.6173		
598C/598	3	5	196.000	58.285	6	531.983	244.278	-	0.1811	5	0.275	0.107	6	0.546	0.146	-	0.2530		
1522C/1522	3	6	423.883	123.612	6	1636.667	543.720	-	0.0296	6	0.473	0.149	6	2.800	0.726	-	0.0065		
Habitat Means			1194.177	488.279		854.597	270.314	+			1.596	0.532		1.406	0.437	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.5849	x	Power	---		Power-50%	---	P-value	0.0510	y		
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.7780		Power	0.000		Power-50%	0.000	P-value	0.2251			

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

Table 6-67, Page 19, December 21, 1994

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	1.667	1.667	6	1.667	1.667	-	0.1000	6	0.000	0.000	6	0.007	0.007	-	0.4153		
453C/453	1	6	3.333	2.108	6	1.667	1.667	-	0.5490	6	0.293	0.293	6	0.000	0.000	-	0.3595		
601C/601	1	6	56.667	52.768	6	3.333	3.333	-	0.4088	6	0.659	0.647	6	0.043	0.043	-	0.5164		
598C/598	1	6	0.000	0.000	6	8.333	8.333	-	0.3632	6	0.000	0.000	6	0.352	0.352	-	0.3632		
1522C/1522	1	6	16.667	14.757	6	21.667	19.734	-	0.9673	6	0.433	0.276	6	0.407	0.385	-	0.8816		
Habitat Means			15.667	14.260		7.333	6.947	-			0.277	0.243		0.162	0.157	-			
Fisher's		Power	0.106		Power-50%	0.199	P-value	0.6920	y	Power	0.002		Power-50%	0.033	P-value	0.5661	y		
Stouffer's		Power	0.098		Power-50%	0.300	P-value	0.4186		Power	0.000		Power-50%	0.117	P-value	0.5604			
4825C/1424	2	6	127.217	113.792	6	1.667	1.667	+	0.2425	6	0.316	0.212	6	0.007	0.007	-	0.3245		
453C/453	2	6	55.000	36.765	6	8.333	8.333	+	0.2012	6	0.412	0.274	6	0.010	0.010	-	0.1346		
601C/601	2	6	62.783	42.986	6	61.667	25.484	+	0.1872	6	0.324	0.227	6	0.385	0.157	-	0.4254		
598C/598	2	6	30.550	13.671	6	271.667	108.610	-	0.0271	6	0.203	0.018	6	2.292	0.790	-	0.0067		
1522C/1522	2	6	71.667	41.747	6	266.667	132.430	-	0.3511	6	0.262	0.100	6	7.000	5.606	-	0.2571		
Habitat Means			69.443	49.792		122.000	55.305	+			0.267	0.166		1.939	1.314	-			
Fisher's		Power	0.484		Power-50%	0.382	P-value	0.1751	xy	Power	---		Power-50%	---	P-value	0.0386	y		
Stouffer's		Power	0.498		Power-50%	0.520	P-value	0.8158		Power	---		Power-50%	---	P-value	0.0550			
4825C/1424	3	5	12.000	8.000	6	13.333	6.146	-	0.7933	5	0.028	0.028	6	0.263	0.253	-	0.4570		
453C/453	3	6	103.333	50.706	5	86.000	53.442	+	0.9099	6	0.462	0.462	5	0.026	0.024	-	0.3772		
601C/601	3	5	854.000	723.530	6	40.000	32.146	+	0.3836	5	4.996	4.439	6	0.134	0.129	-	0.2079		
598C/598	3	5	68.000	60.614	6	242.700	101.290	-	0.0949	5	0.176	0.171	6	1.101	0.767	-	0.4781		
1522C/1522	3	6	188.333	100.047	6	136.667	63.962	+	0.7279	6	0.683	0.306	6	0.382	0.207	-	0.2309		
Habitat Means			245.133	188.579		103.740	51.397	+			1.293	1.081		0.381	0.276	-			
Fisher's		Power	0.188		Power-50%	0.238	P-value	0.6282	x	Power	0.041		Power-50%	0.088	P-value	0.2162	x		
Stouffer's		Power	0.322		Power-50%	0.449	P-value	0.8412		Power	0.228		Power-50%	0.263	P-value	0.3613			

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

Table D-67, Page 19, December 21, 1994

Isopoda - abundance (#/m^2)										Isopoda - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	1.667	1.667	6	1.667	1.667	-	1.0000	6	0.000	0.000	6	0.007	0.007	-	0.4155		
453C/453	1	6	3.333	2.108	6	1.667	1.667	-	0.5490	6	0.293	0.293	6	0.000	0.000	-	0.3595		
601C/601	1	6	56.667	32.768	6	3.333	3.333	-	0.4088	6	0.659	0.647	6	0.043	0.043	-	0.5164		
598C/598	1	6	0.000	0.000	6	8.333	8.333	-	0.3632	6	0.000	0.000	6	0.352	0.352	-	0.3632		
1522C/1522	1	6	16.667	14.757	6	21.667	19.734	-	0.9673	6	0.433	0.276	6	0.407	0.385	-	0.8816		
Habitat Means			15.667	14.260		7.333	6.947	-			0.277	0.243		0.162	0.157	-			
Fisher's	Power		0.106		Power-50%	0.199	P-value	0.6920	y	Power	0.002		Power-50%	0.033	P-value	0.5661			
Stouffer's	Power		0.098		Power-50%	0.300	P-value	0.4186		Power	0.000		Power-50%	0.117	P-value	0.5604			
4825C/1424	2	6	127.217	113.792	6	1.667	1.667	+	0.2425	6	0.316	0.212	6	0.007	0.007	-	0.3245		
453C/453	2	6	55.000	36.765	6	8.333	8.333	+	0.2012	6	0.412	0.274	6	0.010	0.010	-	0.1346		
601C/601	2	6	62.783	42.986	6	61.667	25.484	+	0.1872	6	0.324	0.227	6	0.385	0.157	-	0.4154		
598C/598	2	6	30.550	13.671	6	271.667	108.610	-	0.0171	6	0.023	0.018	6	2.292	0.790	-	0.0067		
1522C/1522	2	6	71.667	41.747	6	266.667	132.430	-	0.3511	6	0.262	0.100	6	7.000	5.606	-	0.2571		
Habitat Means			69.443	49.792		122.000	55.305	+			0.267	0.166		1.939	1.314	-			
Fisher's	Power		0.484		Power-50%	0.382	P-value	0.1751	xy	Power	---		Power-50%	---	P-value	0.0386			
Stouffer's	Power		0.498		Power-50%	0.520	P-value	0.8158		Power	---		Power-50%	---	P-value	0.0550			
4825C/1424	3	5	12.000	8.000	6	13.333	6.146	-	0.7933	5	0.028	0.028	6	0.263	0.253	-	0.4570		
453C/453	3	6	103.333	50.706	5	86.000	53.442	-	0.9099	6	0.580	0.462	5	0.026	0.024	-	0.3772		
601C/601	3	5	854.000	723.530	6	40.000	32.146	-	0.3836	5	4.996	4.439	6	0.134	0.129	-	0.2079		
598C/598	3	5	68.000	60.614	6	242.700	101.290	-	0.0949	5	0.176	0.171	6	1.101	0.767	-	0.4781		
1522C/1522	3	6	188.333	100.047	6	136.667	63.962	-	0.7279	6	0.683	0.306	6	0.382	0.207	-	0.2309		
Habitat Means			245.133	188.579		103.740	51.397	-			1.293	1.081		0.381	0.276	-			
Fisher's	Power		0.188		Power-50%	0.238	P-value	0.6282	x	Power	0.041		Power-50%	0.088	P-value	0.2102			
Stouffer's	Power		0.322		Power-50%	0.449	P-value	0.8412		Power	0.228		Power-50%	0.263	P-value	0.3613			

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

Table D-67, Page 20, December 21, 1994

Table D-67. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, July 1990. (Continued.)

Errant polychaetes - abundance (#/m ²)										Errant polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	5.000	5.000	6	0.000	0.000	+	0.3632	6	0.012	0.012	6	0.000	0.000	+	0.3632		
453C/453	1	6	6.667	4.944	6	1.667	1.667	+	0.4603	6	0.022	0.014	6	0.000	0.000	+	0.1933		
601C/601	1	6	30.000	26.204	6	8.333	8.333	+	0.5430	6	0.027	0.027	6	0.093	0.093	+	0.9188		
598C/598	1	6	6.667	6.667	6	0.000	0.000	+	0.3632	6	0.005	0.005	6	0.000	0.000	+	0.3632		
1522C/1522	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			9.667	8.563		2.000	2.000	+			0.013	0.012		0.019	0.019	+			
Fisher's	Power		0.508		Power-50%	0.310	P-value	0.1844		Power	0.083		Power-50%	0.037	P-value	0.1679			
Stouffer's	Power	---			Power-50%	0.416	P-value	0.0862		Power	---		Power-50%	---	P-value	0.0670			
4825C/1424	2	6	136.667	51.812	6	1.667	1.667	+	0.0267	6	0.040	0.020	6	0.007	0.007	+	0.2427		
453C/453	2	6	68.333	44.453	6	10.000	6.831	+	0.4530	6	0.122	0.101	6	0.025	0.023	+	0.6297		
601C/601	2	6	18.883	16.962	6	181.667	108.855	-	0.1013	6	0.028	0.023	6	0.133	0.047	-	0.1394		
598C/598	2	6	108.333	108.333	6	251.667	203.722	-	0.2969	6	0.032	0.032	6	0.120	0.083	-	0.2473		
1522C/1522	2	6	5.000	5.000	6	98.333	46.218	-	0.0582	6	0.008	0.008	6	0.655	0.510	-	0.0239		
Habitat Means			67.443	45.312		108.667	73.459	-			0.046	0.037		0.188	0.134	-			
Fisher's	Power	---			Power-50%	---	P-value	0.0661x		Power	---		Power-50%	---	P-value	0.0359			
Stouffer's	Power	0.004			Power-50%	0.582	P-value	0.1902		Power	---		Power-50%	---	P-value	0.0995			
4825C/1424	3	5	852.000	388.734	6	233.333	162.884	+	0.1968	5	0.218	0.073	6	0.447	0.266	+	0.3762		
453C/453	3	6	365.000	226.815	5	62.000	45.431	+	0.5244	6	0.237	0.120	5	0.064	0.064	+	0.0095		
601C/601	3	5	376.000	286.332	6	772.667	582.132	-	0.4054	5	0.248	0.100	6	0.381	0.222	-	0.7957		
598C/598	3	5	1392.020	624.437	6	535.417	196.252	+	0.0763	5	0.868	0.312	6	0.624	0.349	+	0.2681		
1522C/1522	3	6	65.000	51.881	6	710.000	241.288	-	0.1589	6	1.874	1.749	6	0.357	0.154	-	0.2789		
Habitat Means			610.004	315.640		462.683	245.597	+			0.689	0.471		0.375	0.211	+			
Fisher's	Power	0.000			Power-50%	0.003	P-value	0.1528		Power	---		Power-50%	---	P-value	0.0284			
Stouffer's	Power	---			Power-50%	0.002	P-value	0.0796		Power	---		Power-50%	---	P-value	0.0114			

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

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

z Only one site pair.

Table B.21. Page 21. December 21, 1991

Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
601C/601	1	6	17.783	17.783	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632		
598C/598	1	6	6.667	4.944	6	0.000	0.000	+	0.1830	6	0.002	0.002	6	0.000	0.000	+	0.2477		
1522C/1522	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			4.890	4.545		0.000	0.000	+			0.001	0.001		0.000	0.000	+			
Fisher's	Power	0.584			Power-50%	0.107	P-value	0.2621		Power	0.076		Power-50%	0.016	P-value	0.3019			
Stouffer's	Power	0.625			Power-50%	0.103	P-value	0.1067		Power	0.232		Power-50%	0.014	P-value	0.1337			
4825C/1424	2	6	356.667	168.576	6	5.000	5.000	+	0.0337	6	0.354	0.136	6	0.005	0.005	+	0.0325		
453C/453	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
601C/601	2	6	17.767	17.767	6	73.333	34.026	-	0.2378	6	0.036	0.036	6	0.000	0.000	-	0.5182		
598C/598	2	6	108.333	78.296	6	268.333	254.590	-	0.7584	6	0.137	0.137	6	0.110	0.110	-	0.9474		
1522C/1522	2	6	0.000	0.000	6	8.333	8.333	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
Habitat Means			96.553	52.928		71.000	60.390	-			0.105	0.062		0.023	0.023	+			
Fisher's	Power	0.149			Power-50%	0.207	P-value	0.3551xy		Power	0.002		Power-50%	0.008	P-value	0.1664			
Stouffer's	Power	0.119			Power-50%	0.351	P-value	0.3425		Power	0.001		Power-50%	0.045	P-value	0.3815			
4825C/1424	3	5	952.000	360.103	6	133.333	81.268	+	0.1289	5	0.967	0.302	6	1.126	1.119	+	0.0813		
453C/453	3	6	63.333	27.039	5	212.000	212.000	-	0.2492	6	2.296	2.279	5	0.132	0.132	-	0.4894		
601C/601	3	5	386.000	345.074	6	230.333	195.131	-	0.5433	5	0.508	0.498	6	0.368	0.342	+	0.9918		
598C/598	3	5	1965.340	737.733	6	207.467	107.361	+	0.0430	5	2.526	0.901	6	0.722	0.475	+	0.0455		
1522C/1522	3	6	10.000	10.000	6	95.000	71.169	-	0.2724	6	0.435	0.435	6	0.014	0.013	+	0.8423		
Habitat Means			675.335	295.990		175.627	133.386	+			1.346	0.883		0.472	0.416	+			
Fisher's	Power	---			Power-50%	---	P-value	0.0906		Power	0.011		Power-50%	0.028	P-value	0.1922x			
Stouffer's	Power	0.003			Power-50%	0.253	P-value	0.1393		Power	---		Power-50%	---	P-value	0.0426			

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

Table D-67, Page 21, December 21, 1991

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

Table D-67, Page 22, December 21, 1991

Table D-67. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, July 1990. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	8.333	8.333	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632		
453C/453	1	6	200.000	198.007	6	0.000	0.000	+	0.2341	6	0.048	0.048	6	0.000	0.000	+	0.3277		
601C/601	1	6	1932.233	1204.125	6	458.333	267.662	+	0.8055	6	0.582	0.402	6	0.093	0.051	+	0.9965		
598C/598	1	6	1081.667	492.439	6	235.000	144.470	+	0.4115	6	0.315	0.159	6	0.215	0.192	+	0.4331		
1522C/1522	1	6	186.667	186.667	6	118.333	59.409	+	0.2245	6	0.045	0.045	6	0.030	0.015	+	0.3883		
Habitat Means			681.780	417.914		162.333	94.308				0.198	0.131		0.068	0.052				
Fisher's		Power	---		Power-50%	---		P-value	0.0731	Power	0.391		Power-50%	0.107		P-value	0.1410		
Stouffer's		Power	---		Power-50%	0.374		P-value	0.0442	Power	---		Power-50%	---		P-value	0.0758		
4825C/1424	2	6	1900.000	1484.644	6	85.000	85.000	+	0.0652	6	2.080	1.890	6	0.005	0.005	+	0.0321		
453C/453	2	6	1520.000	1462.644	6	801.667	521.027	+	0.5827	6	0.263	0.257	6	0.122	0.078	+	0.6321		
601C/601	2	6	501.667	383.896	6	1536.667	753.647	+	0.2043	6	0.267	0.233	6	0.542	0.229	+	0.1254		
598C/598	2	6	3796.116	1631.364	6	2213.333	808.817	+	0.7176	6	1.016	0.416	6	0.425	0.168	+	0.9315		
1522C/1522	2	6	640.000	466.455	6	10226.667	5592.340	+	0.2326	6	0.062	0.036	6	0.992	0.540	+	0.1748		
Habitat Means			1671.557	1085.801		2972.667	1552.166				0.738	0.566		0.417	0.204				
Fisher's		Power	0.011		Power-50%	0.372		P-value	0.2969 y	Power	0.041		Power-50%	0.216		P-value	0.2587		
Stouffer's		Power	0.084		Power-50%	0.673		P-value	0.3875	Power	0.122		Power-50%	0.581		P-value	0.5075		
4825C/1424	3	5	980.000	538.776	6	1198.333	973.949	+	0.5903	5	0.338	0.110	6	0.247	0.221	+	0.2590		
453C/453	3	6	2191.667	893.284	5	2674.000	1241.932	+	0.3534	6	0.287	0.141	5	0.556	0.272	+	0.2149		
601C/601	3	5	992.000	583.870	6	564.333	228.094	+	0.9011	5	0.256	0.150	6	0.064	0.029	+	0.5037		
598C/598	3	5	798.000	109.700	6	1228.333	299.982	+	0.5679	5	0.823	0.773	6	0.427	0.154	+	0.3934		
1522C/1522	3	6	418.333	308.204	6	2663.333	1185.964	+	0.0226	6	0.303	0.291	6	0.327	0.087	+	0.2789		
Habitat Means			1076.000	486.767		1665.666	785.984				0.401	0.293		0.324	0.153				
Fisher's		Power	---		Power-50%	---		P-value	0.0458	Power	0.000		Power-50%	0.001		P-value	0.3874		
Stouffer's		Power	---		Power-50%	0.029		P-value	0.0728	Power	0.000		Power-50%	0.011		P-value	0.4638		

Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	1845.000	888.545	6	933.333	669.740	+	0.5051	6	174.374	95.112	6	84.447	35.486	+	0.6791		
453C/453	1	6	4586.667	2292.890	6	763.333	530.143	+	0.4079	6	153.797	61.239	6	75.257	27.679	+	0.7178		
601C/601	1	6	8913.867	3161.603	6	2876.667	819.767	+	0.4842	6	502.354	169.062	6	175.212	158.326	+	0.5589		
598C/598	1	6	4491.667	1191.938	6	5103.333	1152.613	+	0.5018	6	241.227	85.826	6	502.459	350.071	+	0.2324		
1522C/1522	1	6	3926.667	2458.327	6	13556.667	5047.422	+	0.1956	6	243.030	144.620	6	431.514	119.095	+	0.3873		
Habitat Means			4752.774	1998.661		4646.667	1643.937				262.956	111.172		293.778	138.131				
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.4806	Power	0.000		Power-50%	0.000		P-value	0.6836		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.5386	Power	0.000		Power-50%	0.000		P-value	0.7651		
4825C/1424	2	6	7432.201	4913.985	6	1815.000	1105.121	+	0.1733	6	106.051	32.450	6	46.097	15.662	+	0.2468		
453C/453	2	6	24455.000	15676.965	6	6668.333	2958.503	+	0.3584	6	845.278	487.213	6	167.768	60.042	+	0.3300		
601C/601	2	6	8961.633	3081.410	6	9768.333	1609.877	+	0.5127	6	378.444	120.215	6	698.685	279.484	+	0.3496		
598C/598	2	6	11403.883	4219.196	6	11325.000	1998.832	+	0.8057	6	515.337	92.271	6	489.867	148.647	+	0.7909		
1522C/1522	2	6	6918.333	2593.757	6	44446.668	19409.330	+	0.0368	6	920.359	473.218	6	1485.292	738.743	+	0.4088		
Habitat Means			11834.210	6097.063		14804.667	5416.333				553.094	241.073		577.542	248.516				
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.3751xy	Power	0.000		Power-50%	0.000		P-value	0.3990 y		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.3892	Power	0.000		Power-50%	0.000		P-value	0.3103		
4825C/1424	3	5	9348.000	3599.171	6	19886.666	5227.533	+	0.1055	5	128.805	52.555	6	43.013	8.292	+	0.6983		
453C/453	3	6	34663.332	9818.566	5	10304.000	3985.075	+	0.0761	6	232.274	123.211	5	111.157	57.127	+	0.5845		
601C/601	3	5	21264.000	6668.644	6	13585.667	2282.869	+	0.7383	5	668.228	248.856	6	481.370	279.214	+	0.4000		
598C/598	3	5	13364.680	2316.957	6	16281.534	4244.755	+	0.9531	5	550.623	181.611	6	446.466	159.367	+	0.6380		
1522C/1522	3	6	9121.633	1914.183	6	34013.332	7811.916	+	0.0154	6	393.580	122.168	6	135.887	38.306	+	0.2254		
Habitat Means			17552.329	4863.504		18814.240	4710.430				394.702	145.680		243.579	108.461				
Fisher's		Power	---		Power-50%	---		P-value	0.0533x	Power	0.000		Power-50%	0.000		P-value	0.1541		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.5965	Power	0.000		Power-50%	0.000		P-value	0.1240		

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

Table D-68. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	8.333	3.073	6	23.333	9.545	-	0.5364	6	0.787	0.263	6	3.400	1.622	-	0.7498		
453C/453	1	6	30.000	17.701	6	30.000	24.221	o	0.5942	6	8.200	4.684	6	6.205	5.331	-	0.5786		
601C/601	1	6	36.667	11.738	6	15.000	6.708	+	0.2689	6	5.610	2.146	6	1.880	0.844	-	0.4177		
598C/598	1	6	60.000	16.330	6	20.000	6.831	+	0.0931	6	6.568	1.552	6	3.568	1.440	-	0.1731		
1522C/1522	1	6	88.333	27.859	6	20.000	8.563	+	0.0868	6	14.212	6.344	6	3.117	1.009	-	0.1423		
Habitat Means			44.667	15.340		21.667	11.174	+			7.075	2.998		3.634	2.049	+			
Fisher's		Power	---		Power-50%	---		P-value	0.0593	Power	---		Power-50%	---		P-value	0.0805		
Stouffer's		Power	---		Power-50%	---		P-value	0.0609	Power	---		Power-50%	---		P-value	0.0359		
4825C/1424	2	5	10.000	6.325	6	38.333	17.208	-	0.0580	5	0.996	0.658	6	5.310	2.320	-	0.0504		
453C/453	2	3	166.667	68.880	6	25.000	10.247	+	0.0304	3	52.917	21.105	6	6.173	3.219	-	0.1091		
601C/601	2	6	3.333	3.333	5	14.000	11.662	-	0.3710	6	0.258	0.258	5	1.522	1.295	-	0.3301		
598C/598	2	6	78.333	36.553	6	33.333	18.012	+	0.5846	6	9.562	4.368	6	5.467	2.899	-	0.7761		
1522C/1522	2	6	20.000	7.303	6	61.667	20.723	-	0.1029	6	4.227	1.570	6	12.390	4.177	-	0.1251		
Habitat Means			55.667	24.479		34.467	15.570	-			13.592	5.592		6.172	2.781	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0720xy	Power	---		Power-50%	---		P-value	0.0880y		
Stouffer's		Power	0.000		Power-50%	0.395		P-value	0.7774	Power	0.000		Power-50%	0.402		P-value	0.6260		
4825C/1424	3	5	4.000	4.000	6	36.667	19.090	-	0.0711	5	0.268	0.268	6	2.975	1.879	-	0.1010		
453C/453	3	4	35.000	20.207	5	40.000	14.491	+	0.7992	4	11.750	8.425	5	6.568	2.636	-	0.9685		
601C/601	3	5	28.000	10.198	4	12.500	12.500	+	0.4319	5	2.816	1.058	4	1.312	1.312	-	0.1016		
598C/598	3	5	38.000	8.602	5	4.000	2.449	+	0.0721	5	3.596	0.646	5	0.318	0.201	-	0.0303		
1522C/1522	3	6	8.333	8.333	5	32.000	17.146	-	0.1868	6	0.628	0.628	5	12.028	7.702	-	0.0819		
Habitat Means			22.667	10.268		25.033	13.135	-			3.812	2.205		4.640	2.746	-			
Fisher's		Power	0.163		Power-50%	0.244		P-value	0.1818x	Power	0.011		Power-50%	0.110		P-value	0.1003xy		
Stouffer's		Power	0.099		Power-50%	0.368		P-value	0.8209	Power	---		Power-50%	---		P-value	0.0678		
x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. z Only one site pair.																			
Lottia pelta - abundance (#/m ²)										Lottia pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	1.667	1.667	6	15.000	8.466	-	0.1856	6	0.217	0.217	6	2.030	1.367	-	0.2380		
453C/453	1	6	8.333	8.333	6	10.000	8.165	-	0.8674	6	2.780	2.780	6	1.930	1.764	-	0.6506		
601C/601	1	6	5.000	2.236	6	1.667	1.667	+	0.7386	6	0.763	0.430	6	0.133	0.133	-	0.2899		
598C/598	1	6	8.333	6.540	6	3.333	2.108	+	0.6169	6	1.400	0.888	6	1.042	0.929	-	0.9052		
1522C/1522	1	6	15.000	11.475	6	11.667	9.804	+	0.7386	6	6.203	5.343	6	1.238	0.918	-	0.8483		
Habitat Means			7.667	6.050		8.333	6.042	+			2.273	1.932		1.275	1.022	-			
Fisher's		Power	0.196		Power-50%	0.757		P-value	0.6611y	Power	0.358		Power-50%	0.654		P-value	0.4705		
Stouffer's		Power	0.153		Power-50%	0.823		P-value	0.3966	Power	0.446		Power-50%	0.744		P-value	0.3253		
4825C/1424	2	5	8.000	5.831	6	35.000	14.083	-	0.0948	5	0.798	0.634	6	4.678	1.883	-	0.1106		
453C/453	2	3	120.000	75.719	6	21.667	9.458	+	0.4803	3	32.227	26.026	6	5.518	3.338	-	0.7147		
601C/601	2	6	0.000	0.000	5	10.000	10.000	-	0.3739	6	0.000	0.000	5	0.822	0.822	-	0.1739		
598C/598	2	6	38.333	11.949	6	20.000	14.376	+	0.2099	6	5.977	1.806	6	3.490	2.635	-	0.2117		
1522C/1522	2	6	10.000	5.164	6	40.000	8.165	-	0.0131	6	2.637	1.444	6	9.023	2.167	-	0.0544		
Habitat Means			35.267	19.733		25.333	11.216	-			8.328	5.982		4.706	2.169	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0267y	Power	---		Power-50%	---		P-value	0.0648y		
Stouffer's		Power	0.023		Power-50%	0.390		P-value	0.6533	Power	0.084		Power-50%	0.353		P-value	0.6316		
4825C/1424	3	5	4.000	4.000	6	23.333	17.638	-	0.2188	5	0.268	0.268	6	2.198	1.863	-	0.3411		
453C/453	3	4	12.500	9.465	5	24.000	12.884	-	0.5062	4	2.733	2.467	5	4.272	1.912	-	0.6941		
601C/601	3	5	16.000	7.483	4	12.500	12.500	+	0.8393	5	1.656	1.044	4	1.312	1.312	-	0.4184		
598C/598	3	5	30.000	7.071	5	4.000	2.449	+	0.1156	5	2.918	0.707	5	0.318	0.201	-	0.0326		
1522C/1522	3	6	8.333	8.333	5	22.000	17.146	-	0.3825	6	0.628	0.628	5	10.070	6.187	-	0.1528		
Habitat Means			14.167	7.270		17.167	12.523	-			1.641	1.023		3.634	2.295	-			
Fisher's		Power	0.137		Power-50%	0.497		P-value	0.3064	Power	0.161		Power-50%	0.248		P-value	0.3346x		
Stouffer's		Power	0.058		Power-50%	0.656		P-value	0.7136	Power	0.304		Power-50%	0.397		P-value	0.8866		
x At least one site pair p-value < 0.100 in opposite direction of overall tests.																			

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Table D-68. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1991. (Continued.)

Tectura persona - abundance (#/m ²)										Tectura persona - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	6.667	3.333	6	6.667	6.667	o	0.4407	6	0.570	0.268	6	1.190	1.190	-	0.3695		
453C/453	1	6	15.000	8.466	6	1.667	1.667	+	0.1813	6	4.868	3.925	6	0.423	0.423	+	0.2330		
601C/601	1	6	31.667	11.377	6	6.667	3.333	+	0.2433	6	4.847	2.038	6	0.888	0.480	+	0.4017		
598C/598	1	6	51.667	14.701	6	15.000	6.708	+	0.0374	6	5.168	1.598	6	2.032	0.933	+	0.0775		
1522C/1522	1	6	66.667	18.012	6	6.667	4.216	+	0.0027	6	7.243	2.190	6	1.693	1.094	+	0.0226		
Habitat Means			34.334	11.178		7.334	4.518	+			4.539	2.004		1.245	0.824	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0007	Power	---		Power-50%	---		P-value	0.0094		
Stouffer's	Power	---			Power-50%	---	0.420	P-value	0.0009	Power	---		Power-50%	---		P-value	0.0054		
4825C/1424	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	2	3	0.000	0.000	6	0.000	0.000	o	1.0000	3	0.000	0.000	6	0.000	0.000	o	1.0000		
601C/601	2	6	3.333	3.333	5	0.000	0.000	+	0.3632	6	0.258	0.258	5	0.000	0.000	+	0.3632		
598C/598	2	6	23.333	21.396	6	1.667	1.667	+	0.3988	6	2.088	2.006	6	0.182	0.182	+	0.5075		
1522C/1522	2	6	3.333	2.108	6	15.000	15.000	-	0.9592	6	0.387	0.247	6	2.453	2.453	-	0.7380		
Habitat Means			6.000	5.367		3.333	3.333	+			0.547	0.502		0.527	0.527	+			
Fisher's	Power	0.045			Power-50%	0.074		P-value	0.3801	Power	0.007		Power-50%	0.043		P-value	0.4539		
Stouffer's	Power	0.006			Power-50%	0.166		P-value	0.1964	Power	0.009		Power-50%	0.088		P-value	0.2562		
4825C/1424	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	3	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000		
601C/601	3	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
598C/598	3	5	2.000	2.000	5	0.000	0.000	+	0.3739	5	0.198	0.198	5	0.000	0.000	+	0.3739		
1522C/1522	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.400	0.400		0.000	0.000	+			0.040	0.040		0.000	0.000	+			
Fisher's	Power	---			Power-50%	---		P-value	0.5417	Power	---		Power-50%	---		P-value	0.5417		
Stouffer's	Power	---			Power-50%	---		P-value	0.2450	Power	---		Power-50%	---		P-value	0.2450		

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

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

z Only one site pair.

Tectura scutum - abundance (#/m ²)										Tectura scutum - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	1	6	0.000	0.000	6	1.667	1.667	+	0.3632	6	0.000	0.000	6	1.610	1.610	+	0.3632		
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.333	0.333	-			0.000	0.000		0.322	0.322	-			
Fisher's	Power	---			Power-50%	---		P-value	0.5362	Power	---		Power-50%	---		P-value	0.5362		
Stouffer's	Power	---			Power-50%	---		P-value	0.3148	Power	---		Power-50%	---		P-value	0.3148		
4825C/1424	2	5	2.000	2.000	6	3.333	3.333	-	0.9695	5	0.198	0.198	6	0.632	0.632	-	0.9975		
453C/453	2	3	23.333	23.333	6	1.667	1.667	+	0.3836	3	18.037	18.037	6	0.537	0.537	+	0.4832		
601C/601	2	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
598C/598	2	6	10.000	8.165	6	3.333	2.108	+	0.7724	6	0.842	0.593	6	0.362	0.253	+	0.9016		
1522C/1522	2	6	3.333	2.108	6	3.333	2.108	o	1.0000	6	0.858	0.710	6	0.483	0.410	-	0.9247		
Habitat Means			7.733	7.121		2.333	1.843	+			3.987	3.908		0.403	0.366	+			
Fisher's	Power	0.315			Power-50%	0.490		P-value	0.5035	Power	0.258		Power-50%	0.427		P-value	0.3565		
Stouffer's	Power	0.146			Power-50%	0.587		P-value	0.2479	Power	0.446		Power-50%	0.513		P-value	0.3132		
4825C/1424	3	5	0.000	0.000	6	3.333	2.108	-	0.1747	5	0.000	0.000	6	0.433	0.289	-	0.1751		
453C/453	3	4	22.500	22.500	5	8.000	3.742	+	0.7320	4	9.017	9.017	5	1.312	1.107	+	0.6365		
601C/601	3	5	8.000	5.831	4	0.000	0.000	+	0.1867	5	0.846	0.545	4	0.000	0.000	+	0.1781		
598C/598	3	5	6.000	4.000	5	0.000	0.000	+	0.1818	5	0.480	0.309	5	0.000	0.000	+	0.1782		
1522C/1522	3	6	0.000	0.000	5	8.000	5.831	-	0.1867	6	0.000	0.000	5	1.930	1.820	-	0.1888		
Habitat Means			7.300	6.466		3.867	2.336	+			2.069	1.974		0.735	0.643	+			
Fisher's	Power	0.669			Power-50%	0.263		P-value	0.2899	Power	0.271		Power-50%	0.470		P-value	0.2627		
Stouffer's	Power	0.065			Power-50%	0.346		P-value	0.1444	Power	0.598		Power-50%	0.544		P-value	0.1259		

Tectura scutum - abundance (#/m^2)										Tectura scutum - biomass (g/m^2)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
4825C/1424	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
453C/453	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	1.610	1.610	-	0.3632	
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
1522C/1522	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.333	0.333	-			0.000	0.000		0.322	0.322	-		
Fisher's	Power		---		Power-50%	---		P-value	0.5362	Power		---		Power-50%	---		P-value	0.5362
Stouffer's	Power		---		Power-50%	---		P-value	0.3148	Power		---		Power-50%	---		P-value	0.3148
4825C/1424	2	5	2.000	2.000	6	3.333	3.333	-	0.9695	5	0.198	0.198	6	0.632	0.632	-	0.9975	
453C/453	2	3	23.333	23.333	6	1.667	1.667	+	0.3836	3	18.037	18.037	6	0.537	0.537	+	0.4832	
601C/601	2	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000	
598C/598	2	6	10.000	8.165	6	3.333	2.108	+	0.7724	6	0.842	0.593	6	0.362	0.253	+	0.9016	
1522C/1522	2	6	3.333	2.108	6	3.333	2.108	o	1.0000	6	0.858	0.710	6	0.483	0.410	-	0.9247	
Habitat Means			7.733	7.121		2.333	1.843	+			3.987	3.908		0.403	0.366	+		
Fisher's	Power		0.315		Power-50%	0.490		P-value	0.5035	Power	0.258		Power-50%	0.427		P-value	0.5565	
Stouffer's	Power		0.146		Power-50%	0.587		P-value	0.2479	Power	0.446		Power-50%	0.513		P-value	0.3132	
4825C/1424	3	5	0.000	0.000	6	3.333	2.108	-	0.1747	5	0.000	0.000	6	0.433	0.289	-	0.1751	
453C/453	3	4	22.500	22.500	5	8.000	3.742	+	0.7320	4	9.017	9.017	5	1.312	1.107	+	0.6365	
601C/601	3	5	8.000	5.831	4	0.000	0.000	+	0.1867	5	0.846	0.545	4	0.000	0.000	+	0.1781	
598C/598	3	5	6.000	4.000	5	0.000	0.000	+	0.1818	5	0.480	0.309	5	0.000	0.000	+	0.1782	
1522C/1522	3	6	0.000	0.000	5	8.000	5.831	-	0.1867	6	0.000	0.000	5	1.930	1.820	-	0.1888	
Habitat Means			7.300	6.466		3.867	2.336	+			2.069	1.974		0.735	0.643	+		
Fisher's	Power		0.669		Power-50%	0.263		P-value	0.2899	Power	0.271		Power-50%	0.470		P-value	0.2627	
Stouffer's	Power		0.065		Power-50%	0.346		P-value	0.1444	Power	0.598		Power-50%	0.544		P-value	0.1259	

Table D-68. Invertebrate Abundance and Biomass. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Balanomorphs - abundance (#/m ²)										Balanomorphs - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	1106.667	770.522	6	13350.000	9095.129	-	0.4333	6	79.413	57.485	6	124.078	63.245	-	0.8381		
453C/453	1	6	6443.333	2910.730	6	191.667	87.955	+	0.0090	6	156.765	66.564	6	10.245	4.844	+	0.0257		
601C/601	1	6	3861.667	1725.065	6	2313.333	769.743	+	0.7834	6	351.858	172.811	6	205.645	109.359	+	0.9147		
598C/598	1	6	2565.000	681.619	6	2153.333	568.687	+	0.4735	6	190.978	44.570	6	134.318	52.647	+	0.3302		
1522C/1522	1	6	9133.333	4920.515	6	11655.000	5294.713	-	0.7924	6	578.908	281.847	6	444.372	171.199	+	0.7918		
Habitat Means			4622.000	2201.690		5932.667	3163.245				271.584	124.655		183.732	80.259				
Fisher's	Power	---			Power-50%	---		P-value	0.0730 y	Power	---		Power-50%	---		P-value	0.0786		
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0327	Power	---		Power-50%	---		P-value	0.0233		
4825C/1424	2	5	878.000	699.688	6	25826.666	9826.494	-	0.0067	5	39.784	36.671	6	161.065	42.314	-	0.0834		
453C/453	2	3	20426.666	15548.539	6	680.000	246.874	+	0.0796	3	2491.743	2384.047	6	24.705	12.426	+	0.1418		
601C/601	2	6	4208.333	1967.630	5	4185.340	1373.058	+	0.5352	6	720.060	376.306	5	427.493	154.492	+	0.7265		
598C/598	2	6	8618.333	1952.399	6	4790.566	934.383	+	0.1000	6	1063.783	346.577	6	368.309	73.097	+	0.0129		
1522C/1522	2	6	3421.667	989.867	6	5523.333	2401.660	-	0.5500	6	359.557	74.911	6	195.863	108.943	+	0.8159		
Habitat Means			7510.600	4231.625		8201.181	2956.494				934.985	643.702		235.487	78.254				
Fisher's	Power	0.000			Power-50%	0.000		P-value	0.1078xy	Power	---		Power-50%	---		P-value	0.0368x		
Stouffer's	Power	---			Power-50%	0.001		P-value	0.0322	Power	---		Power-50%	---		P-value	0.0047		
4825C/1424	3	5	10.000	5.477	6	4906.667	2920.035	-	0.0042	5	0.094	0.064	6	37.448	21.271	-	0.0285		
453C/453	3	4	367.500	137.803	5	2510.000	2207.236	-	0.9605	4	15.043	8.094	5	67.312	63.491	-	0.8103		
601C/601	3	5	1640.000	1194.466	4	1375.000	825.293	+	0.9105	5	241.742	165.600	4	177.162	129.196	+	0.8454		
598C/598	3	5	3066.000	869.175	5	1260.000	396.081	+	0.5471	5	353.828	107.712	5	101.003	36.803	+	0.5773		
1522C/1522	3	6	1670.000	826.636	5	696.000	407.696	+	0.5690	6	272.542	145.375	5	20.110	18.003	+	0.2952		
Habitat Means			1350.700	606.711		2149.533	1351.768				176.650	85.369		80.607	53.753				
Fisher's	Power	0.000			Power-50%	0.003		P-value	0.6295xy	Power	0.000		Power-50%	0.000		P-value	0.5225x		
Stouffer's	Power	0.000			Power-50%	0.003		P-value	0.4256	Power	0.000		Power-50%	0.000		P-value	0.3960		

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

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

z Only one site pair.

Table B 58, Page 5. November 21, 1994

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	105.000	72.744	6	11031.667	8694.107	-	0.0127	6	0.525	0.363	6	72.043	53.405	-	0.0108		
453C/453	1	6	3268.333	1968.857	6	15.000	15.000	+	0.0009	6	23.805	14.296	6	0.153	0.153	+	0.0004		
601C/601	1	6	105.000	66.068	6	453.333	439.391	-	0.8430	6	0.575	0.349	6	1.670	1.620	-	0.6084		
598C/598	1	6	140.000	109.057	6	441.667	314.308	-	0.6155	6	0.600	0.444	6	4.800	3.751	-	0.5356		
1522C/1522	1	6	1371.667	1262.308	6	2943.333	1389.085	-	0.0641	6	2.273	1.795	6	17.585	7.989	-	0.0281		
Habitat Means			998.000	695.807		2977.000	2170.378				5.556	3.449		19.250	13.384				
Fisher's	Power	---			Power-50%	---		P-value	0.0205x	Power	---		Power-50%	---		P-value	0.0076x		
Stouffer's	Power	0.031			Power-50%	0.430		P-value	0.7240	Power	0.126		Power-50%	0.429		P-value	0.6802		
4825C/1424	2	5	54.000	42.615	6	24830.000	10026.378	-	0.0002	5	0.100	0.086	6	141.035	47.689	-	0.0001		
453C/453	2	3	18506.666	15573.735	6	345.000	166.528	+	0.0439	3	76.077	65.316	6	4.035	2.230	+	0.0922		
601C/601	2	6	13.333	6.667	5	152.000	83.750	-	0.3274	6	0.018	0.016	5	0.332	0.199	-	0.2318		
598C/598	2	6	11.667	7.923	6	138.333	47.569	-	0.0015	6	0.030	0.030	6	0.628	0.157	-	0.0011		
1522C/1522	2	6	71.667	46.218	6	3025.000	1446.932	-	0.0288	6	0.087	0.063	6	33.713	6.106	-	0.0153		
Habitat Means			3731.467	3135.432		5698.067	2354.231				15.262	13.102		31.949	11.276				
Fisher's	Power	---			Power-50%	---		P-value	0.0000x	Power	---		Power-50%	---		P-value	0.0000x		
Stouffer's	Power	---			Power-50%	0.484		P-value	0.0048	Power	---		Power-50%	---		P-value	0.0015		
4825C/1424	3	5	6.000	6.000	6	4666.667	2715.398	-	0.0062	5	0.008	0.008	6	36.622	20.909	-	0.0045		
453C/453	3	4	222.500	75.980	5	1430.000	1225.741	-	0.9004	4	1.227	0.639	5	6.604	5.942	-	0.8746		
601C/601	3	5	6.000	4.000	4	2.500	2.500	+	0.6147	5	0.018	0.018	4	0.005	0.005	+	0.8591		
598C/598	3	5	6.000	4.000	5	0.000	0.000	+	0.1818	5	0.010	0.006	5	0.000	0.000	+	0.1788		
1522C/1522	3	6	10.000	6.325	5	506.000	268.265	-	0.1269	6	0.012	0.008	5	2.734	1.559	-	0.0925		
Habitat Means			50.100	19.261		1321.033	842.381				0.255	0.136		9.193	5.683				
Fisher's	Power	---			Power-50%	---		P-value	0.0334	Power	---		Power-50%	---		P-value	0.0191		
Stouffer's	Power	0.000			Power-50%	0.578		P-value	0.6516	Power	0.000		Power-50%	0.190		P-value	0.6015		

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

Table D-68, Page 5. December 21, 1994

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	105.000	72.744	6	11031.667	8694.107	-	0.0127	6	0.525	0.363	6	72.043	53.405	-	0.0108		
453C/453	1	6	3268.333	1968.857	6	15.000	15.000	+	0.0009	6	23.805	14.296	6	0.153	0.153	-	0.0004		
601C/601	1	6	105.000	66.068	6	453.333	439.391	-	0.8430	6	0.575	0.349	6	1.670	1.620	-	0.6084		
598C/598	1	6	140.000	109.057	6	441.667	314.308	-	0.6155	6	0.600	0.444	6	4.800	3.751	-	0.5356		
1522C/1522	1	6	1371.667	1262.308	6	2943.333	1389.085	-	0.0641	6	2.273	1.795	6	17.585	7.989	-	0.0281		
Habitat Means			998.000	695.807		2977.000	2170.378	-			5.556	3.449		19.250	13.384	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0205x	Power		---		Power-50%	---		P-value	0.0076x	
Stouffer's	Power		0.031		Power-50%	0.430		P-value	0.7240	Power		0.126		Power-50%	0.429		P-value	0.6802	
4825C/1424	2	5	54.000	42.615	6	24830.000	10026.378	-	0.0002	5	0.100	0.086	6	141.035	47.689	-	0.0001		
453C/453	2	3	18506.666	15573.735	6	345.000	166.528	+	0.0439	3	76.077	65.316	6	4.035	2.230	-	0.0922		
601C/601	2	6	13.333	6.667	5	152.000	83.750	-	0.3274	6	0.018	0.016	5	0.332	0.199	-	0.2318		
598C/598	2	6	11.667	7.923	6	138.333	47.569	-	0.0015	6	0.030	0.030	6	0.628	0.157	-	0.0011		
1522C/1522	2	6	71.667	46.218	6	3025.000	1446.932	-	0.0288	6	0.087	0.063	6	13.713	6.106	-	0.0153		
Habitat Means			3731.467	3135.432		5698.067	2354.231	-			15.262	13.102		31.949	11.276	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0000x	Power		---		Power-50%	---		P-value	0.0000x	
Stouffer's	Power		---		Power-50%	0.484		P-value	0.0048	Power		---		Power-50%	---		P-value	0.0015	
4825C/1424	3	5	6.000	6.000	6	4666.667	2715.398	-	0.0062	5	0.008	0.008	6	36.622	20.909	-	0.0045		
453C/453	3	4	222.500	75.980	5	1430.000	1225.741	-	0.9004	4	1.227	0.639	5	6.604	5.942	-	0.8746		
601C/601	3	5	6.000	4.000	4	2.500	2.500	+	0.6147	5	0.018	0.018	4	0.005	0.005	-	0.8591		
598C/598	3	5	6.000	4.000	5	0.000	0.000	+	0.1818	5	0.010	0.006	5	0.000	0.000	-	0.1788		
1522C/1522	3	6	10.000	6.325	5	506.000	268.265	-	0.1269	6	0.012	0.008	5	2.734	1.559	-	0.0925		
Habitat Means			50.100	19.261		1321.033	842.381	-			0.255	0.136		9.193	5.683	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0334	Power		---		Power-50%	---		P-value	0.0191	
Stouffer's	Power		0.000		Power-50%	0.578		P-value	0.6516	Power		0.000		Power-50%	0.190		P-value	0.6015	

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

Table D-68, Page 6. December 21, 1994

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Table 1: ϵ_H , $\mathcal{P}_{\text{drag}}$ and $\mathcal{P}_{\text{eff}}$ at z_{dec} and z_{reion} for $\nu_{\text{dec}} = 10^{-5}$ and $\nu_{\text{reion}} = 10^{-4}$

Table D-68. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1991. (Continued.)

Lacuna spp. - abundance (#/m ²)										Lacuna spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.023	0.023	6	0.000	0.000	o	0.3632		
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.333	0.333		0.000	0.000	+			0.005	0.005		0.000	0.000	-			
Fisher's		Power	---		Power-50%	---	P-value	0.5362		Power	---		Power-50%	---	P-value	0.5362			
Stouffer's		Power	---		Power-50%	---	P-value	0.3148		Power	---		Power-50%	---	P-value	0.3148			
4825C/1424	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	2	3	3.333	3.333	6	0.000	0.000	-	0.4226	3	0.033	0.033	6	0.000	0.000	-	0.4226		
601C/601	2	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
598C/598	2	6	0.000	0.000	6	3.333	2.108	-	0.1747	6	0.000	0.000	6	0.038	0.036	-	0.2120		
1522C/1522	2	6	0.000	0.000	6	5.000	3.416	-	0.1784	6	0.000	0.000	6	0.085	0.069	-	0.1803		
Habitat Means			0.667	0.667		1.667	1.105	-			0.007	0.007		0.025	0.021	-			
Fisher's		Power	0.635		Power-50%	---	P-value	0.2261		Power	0.018		Power-50%	---	P-value	0.2500			
Stouffer's		Power	0.225		Power-50%	---	P-value	0.1819		Power	0.014		Power-50%	---	P-value	0.2055			
4825C/1424	3	5	10.000	5.477	6	543.333	148.631	-	0.0085	5	0.054	0.035	6	10.052	4.239	-	0.0088		
453C/453	3	4	1365.000	491.011	5	108.000	98.306	+	0.0025	4	7.735	2.795	5	1.390	1.278	-	0.0117		
601C/601	3	5	2.000	2.000	4	95.000	81.904	-	0.0917	5	0.052	0.052	4	1.123	0.903	-	0.0745		
598C/598	3	5	2.000	2.000	5	8.000	3.742	-	0.4177	5	0.054	0.054	5	0.132	0.081	-	0.3395		
1522C/1522	3	6	23.333	21.396	5	594.000	497.630	-	0.0151	6	0.215	0.183	5	4.230	3.561	-	0.0437		
Habitat Means			280.467	104.377		269.667	166.043	-			1.622	0.624		3.385	2.012	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0007*		Power	---		Power-50%	---	P-value	0.0014*			
Stouffer's		Power	0.051		Power-50%	0.256	P-value	0.3826		Power	0.016		Power-50%	0.287	P-value	0.2743			

Littorina spp. - abundance (#/m ²)										Littorina spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	670.000	324.787	6	258.333	177.095	+	0.4790	6	21.348	10.905	6	7.885	4.258	+	0.3062		
453C/453	1	6	393.333	115.403	6	191.667	151.182	+	0.0387	6	20.005	4.683	6	11.322	7.949	-	0.5080		
601C/601	1	6	196.667	136.715	6	518.333	281.915	-	0.2397	6	8.785	6.396	6	22.052	14.968	-	0.3132		
598C/598	1	6	81.667	30.921	6	85.000	36.674	-	0.5710	6	6.455	2.670	6	4.892	2.471	-	0.9049		
1522C/1522	1	6	326.667	144.584	6	2006.667	1172.120	-	0.3560	6	23.325	11.611	6	34.030	14.589	-	0.4150		
Habitat Means			333.667	150.482		612.000	363.797	-			15.984	7.253		16.036	8.847	-			
Fisher's		Power	0.051		Power-50%	0.003	P-value	0.3742*		Power	0.000		Power-50%	0.000	P-value	0.5429*			
Stouffer's		Power	0.093		Power-50%	0.009	P-value	0.6147		Power	0.000		Power-50%	0.006	P-value	0.4275			
4825C/1424	2	5	963.320	356.230	6	233.333	70.222	+	0.7761	5	23.360	7.689	6	8.800	4.055	-	0.9349		
453C/453	2	3	526.667	442.807	6	288.333	46.434	+	0.7630	3	44.403	40.966	6	36.943	8.836	-	0.4599		
601C/601	2	6	441.667	114.526	5	1360.000	493.660	-	0.2058	6	22.982	7.250	5	27.867	4.286	-	0.3269		
598C/598	2	6	608.333	123.110	6	1432.783	898.511	-	0.6658	6	31.447	5.540	6	39.412	18.083	-	0.4390		
1522C/1522	2	6	1693.333	710.219	6	4395.000	1521.262	-	0.3292	6	41.372	15.700	6	54.425	14.832	-	0.3907		
Habitat Means			846.664	349.378		1541.890	606.018	-			32.713	15.429		33.489	10.018	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.2655		Power	0.000		Power-50%	0.000	P-value	0.3054			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.2639		Power	0.000		Power-50%	0.000	P-value	0.2734			
4825C/1424	3	5	372.000	170.041	6	236.667	74.147	+	0.9173	5	2.188	1.111	6	2.758	2.220	-	0.9160		
453C/453	3	4	2032.500	1656.298	5	1146.000	359.397	+	0.2478	4	16.270	15.704	5	53.170	30.192	-	0.0561		
601C/601	3	5	616.000	312.083	4	373.325	198.268	+	0.7100	5	18.350	11.588	4	7.562	4.485	-	0.6788		
598C/598	3	5	414.000	294.612	5	270.000	221.156	+	0.4196	5	4.100	3.292	5	1.380	1.086	-	0.3648		
1522C/1522	3	6	1647.767	652.527	5	536.000	368.953	+	0.3212	6	7.910	2.712	5	54.548	53.989	-	0.5498		
Habitat Means			1016.453	617.112		512.398	244.384	+			9.764	6.881		23.884	18.394	-			
Fisher's		Power	0.000		Power-50%	0.001	P-value	0.1478		Power	0.000		Power-50%	0.000	P-value	0.2515			
Stouffer's		Power	---		Power-50%	0.006	P-value	0.0611		Power	0.001		Power-50%	0.002	P-value	0.3620			

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

Table D-68, Page 9. November 27, 1993

Table D-68, Page 10. November

Table D-68. Invertebrate Abundance and Biomass. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	421.667	270.375	6	71.667	29.935	-	0.3840	6	16.780	10.384	6	4.105	1.427	-	0.2485		
453C/453	1	6	331.667	103.486	6	161.667	144.093	-	0.0263	6	18.380	4.522	6	10.185	7.829	-	0.4539		
601C/601	1	6	38.333	16.617	6	193.333	104.584	-	0.3068	6	2.792	1.578	6	13.497	10.273	-	0.3288		
598C/598	1	6	61.667	18.693	6	53.333	26.289	-	0.4389	6	5.685	2.087	6	3.737	1.862	-	0.8583		
1522C/1522	1	6	213.333	120.379	6	1056.667	864.340	-	0.3040	6	18.747	11.935	6	17.593	11.806	-	0.9158		
Habitat Means			213.333	105.910		307.333	233.848				12.477	6.101		9.823	6.639				
Fisher's	Power		0.001		Power-50%	0.012	P-value	0.1098		Power	0.001		Power-50%	0.009	P-value	0.3773			
Stouffer's	Power		---		Power-50%	0.096	P-value	0.0735		Power	0.000		Power-50%	0.054	P-value	0.3115			
4825C/1424	2	5	584.660	201.049	6	108.333	37.720	+	0.3006	5	18.960	5.750	6	7.355	3.858	+	0.5964		
453C/453	2	3	420.000	360.416	6	180.000	57.504	+	0.9393	3	43.930	40.561	6	32.402	9.893	+	0.3201		
601C/601	2	6	156.667	59.703	5	396.660	210.077	-	0.9447	6	14.393	4.120	5	9.705	3.834	+	0.3457		
598C/598	2	6	245.000	59.763	6	730.000	477.794	-	0.9785	6	23.642	4.053	6	27.880	11.425	-	0.4369		
1522C/1522	2	6	1256.667	606.188	6	2576.667	908.294	-	0.3295	6	33.457	16.121	6	40.267	11.811	-	0.2883		
Habitat Means			532.599	257.424		798.332	338.278				26.876	14.121		23.522	8.164				
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.6161		Power	0.000		Power-50%	0.000	P-value	0.4062			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.4779		Power	0.000		Power-50%	0.000	P-value	0.5020			
4825C/1424	3	5	276.000	166.271	6	38.333	21.667	+	0.1651	5	1.936	1.045	6	2.263	2.141	-	0.2608		
453C/453	3	4	1445.000	1324.100	5	724.000	276.290	+	0.2572	4	12.602	12.254	5	47.638	30.124	-	0.0935		
601C/601	3	5	324.000	119.524	4	130.000	123.356	+	0.2461	5	14.888	11.190	4	2.315	2.209	+	0.3491		
598C/598	3	5	154.000	103.566	5	28.000	13.191	+	0.4336	5	2.768	2.478	5	0.174	0.092	+	0.4249		
1522C/1522	3	6	522.217	266.548	5	182.000	129.707	+	0.2936	6	3.426	1.344	5	52.182	51.920	-	0.4492		
Habitat Means			544.243	396.002		220.467	112.842				7.124	5.662		20.914	17.297				
Fisher's	Power		---		Power-50%	---	P-value	0.0276		Power	0.011		Power-50%	0.003	P-value	0.1707			
Stouffer's	Power		---		Power-50%	0.093	P-value	0.0295		Power	0.005		Power-50%	0.080	P-value	0.3567			

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	248.333	122.893	6	186.667	151.232	+	0.7898	6	4.568	2.469	6	3.780	3.152	-	0.8790		
453C/453	1	6	61.667	18.693	6	30.000	16.931	+	0.2304	6	1.625	0.537	6	1.137	0.722	-	0.2302		
601C/601	1	6	158.333	127.133	6	325.000	182.570	-	0.2197	6	5.993	5.049	6	8.555	4.811	-	0.2715		
598C/598	1	6	20.000	14.832	6	31.667	14.701	-	0.3784	6	0.770	0.627	6	1.155	0.625	-	0.2955		
1522C/1522	1	6	113.333	76.493	6	950.000	407.889	-	0.1405	6	4.578	3.186	6	16.437	6.109	-	0.4533		
Habitat Means			120.333	72.009		304.667	154.665				3.507	2.374		6.213	3.084				
Fisher's	Power		0.002		Power-50%	0.124	P-value	0.1594		Power	0.002		Power-50%	0.089	P-value	0.2726			
Stouffer's	Power		0.005		Power-50%	0.283	P-value	0.2739		Power	0.007		Power-50%	0.245	P-value	0.2861			
4825C/1424	2	5	378.660	156.676	6	125.000	45.516	+	0.6795	5	4.400	2.124	6	1.445	0.511	+	0.5242		
453C/453	2	3	106.667	82.932	6	108.333	50.558	-	0.9528	3	0.473	0.405	6	4.542	2.274	-	0.6544		
601C/601	2	6	285.000	70.934	5	963.340	291.319	-	0.0145	6	8.588	3.139	5	18.162	5.015	-	0.1531		
598C/598	2	6	363.333	76.449	6	702.783	431.798	-	0.4270	6	7.805	2.819	6	11.532	7.292	-	0.2193		
1522C/1522	2	6	436.667	121.536	6	1818.333	685.674	-	0.1901	6	7.915	2.129	6	14.158	5.481	-	0.6228		
Habitat Means			314.065	101.705		743.558	300.973				5.836	2.123		9.968	4.115				
Fisher's	Power		---		Power-50%	---	P-value	0.0296		Power	0.000		Power-50%	0.002	P-value	0.1420			
Stouffer's	Power		---		Power-50%	0.005	P-value	0.0766		Power	---		Power-50%	---	P-value	0.0673			
4825C/1424	3	5	96.000	30.430	6	198.333	63.478	+	0.7998	5	0.252	0.110	6	0.495	0.150	+	0.9360		
453C/453	3	4	587.500	361.741	5	422.000	171.038	+	0.7114	4	3.668	3.450	5	5.532	2.335	-	0.5792		
601C/601	3	5	292.000	234.955	4	243.325	122.672	+	0.9133	5	3.462	2.860	4	5.247	4.543	-	0.5955		
598C/598	3	5	260.000	193.391	5	242.000	210.057	+	0.9659	5	1.332	0.837	5	1.206	1.020	-	0.9682		
1522C/1522	3	6	1125.550	610.289	5	354.000	239.825	+	0.0614	6	4.484	2.604	5	2.366	2.073	-	0.4857		
Habitat Means			472.210	286.161		291.932	161.414				2.640	1.972		2.969	2.024				
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.2193		Power	0.000		Power-50%	0.000	P-value	0.5995			
Stouffer's	Power		0.001		Power-50%	0.003	P-value	0.2716		Power	0.001		Power-50%	0.002	P-value	0.4005			

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

Table D-68. Page 11. December 21, 1994

Table D-68. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1991. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	58.333	34.294	6	11.667	8.333	+	0.4704	6	5.218	4.321	6	0.637	0.623	+	0.4294		
453C/453	1	6	63.333	38.787	6	645.000	639.008	-	0.7494	6	1.192	0.431	6	23.492	21.244	-	0.9688		
601C/601	1	6	178.333	91.521	6	468.333	199.088	-	0.5028	6	95.823	43.865	6	234.023	134.466	-	0.6817		
598C/598	1	6	133.333	76.231	6	475.000	427.744	-	0.7979	6	63.323	34.682	6	60.697	55.596	+	0.4246		
1522C/1522	1	6	531.667	208.797	6	4853.333	4018.597	-	0.7385	6	162.725	109.366	6	246.238	92.502	-	0.7931		
Habitat Means			193.000	89.926		1290.667	1058.554	-			65.656	38.533		113.017	60.886	-			
Fisher's		Power	0.076		Power-50%	0.204	P-value	0.5235		Power	0.046		Power-50%	0.188	P-value	0.7795			
Stouffer's		Power	0.154		Power-50%	0.466	P-value	0.3114		Power	0.146		Power-50%	0.465	P-value	0.7221			
4825C/1424	2	5	269.340	143.182	6	85.000	60.208	+	0.3697	5	4.899	2.825	6	1.105	0.699	+	0.3858		
453C/453	2	3	17006.666	16777.193	6	248.333	97.755	+	0.7325	3	205.937	204.743	6	21.940	14.502	+	0.5612		
601C/601	2	6	595.000	341.855	5	516.000	207.138	-	0.9298	6	111.725	69.438	5	374.288	127.705	-	0.9338		
598C/598	2	6	583.333	195.460	6	695.000	318.734	-	0.5301	6	158.952	126.681	6	117.755	53.278	+	0.9802		
1522C/1522	2	6	2240.000	1205.507	6	9085.000	4077.648	-	0.2856	6	403.522	119.910	6	891.648	571.120	-	0.7347		
Habitat Means			4138.868	3732.639		2125.867	952.297	-			177.007	104.719		281.347	213.461	+			
Fisher's		Power	0.001		Power-50%	0.000	P-value	0.6443		Power	0.000		Power-50%	0.000	P-value	0.4916			
Stouffer's		Power	0.001		Power-50%	0.000	P-value	0.6492		Power	0.000		Power-50%	0.000	P-value	0.3601			
4825C/1424	3	5	836.000	260.319	6	3648.333	892.224	-	0.1134	5	2.148	1.033	6	26.473	12.364	-	0.0394		
453C/453	3	4	9347.500	6129.499	5	2688.000	1308.753	+	0.4894	4	351.053	291.893	5	74.390	37.544	+	0.6805		
601C/601	3	5	1646.000	845.379	4	507.500	211.990	+	0.1276	5	214.864	196.094	4	14.405	6.830	-	0.4907		
598C/598	3	5	978.000	343.619	5	360.660	117.352	+	0.3770	5	124.980	112.973	5	5.013	3.148	+	0.3042		
1522C/1522	3	6	1148.333	502.763	5	2844.000	1224.462	-	0.3181	6	44.103	14.539	5	26.422	19.052	+	0.4127		
Habitat Means			2791.167	1616.316		2009.699	750.956	+			147.430	123.306		29.341	15.788	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.2771		Power	0.000		Power-50%	0.000	P-value	0.2898			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1641		Power	0.000		Power-50%	0.000	P-value	0.1447			

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.002	0.002	6	0.000	0.000	+	0.3632		
453C/453	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632		
601C/601	1	6	0.000	0.000	6	3.333	2.108	-	0.1747	6	0.000	0.000	6	0.003	0.003	-	0.3007		
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	1	6	0.000	0.000	6	106.667	106.667	-	0.3632	6	0.000	0.000	6	0.048	0.048	-	0.3632		
Habitat Means			0.667	0.667		22.000	21.755	-			0.001	0.001		0.010	0.010	-			
Fisher's		Power	0.902		Power-50%	---	P-value	0.3998		Power	0.001		Power-50%	---	P-value	0.4956			
Stouffer's		Power	0.429		Power-50%	---	P-value	0.5420		Power	0.000		Power-50%	---	P-value	0.5714			
4825C/1424	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	2	3	0.000	0.000	6	0.000	0.000	o	1.0000	3	0.000	0.000	6	0.000	0.000	o	1.0000		
601C/601	2	6	0.000	0.000	5	90.660	41.919	-	0.0205	6	0.000	0.000	5	0.070	0.030	-	0.0211		
598C/598	2	6	3.333	3.333	6	18.883	15.237	-	0.4515	6	0.002	0.002	6	0.007	0.007	-	0.7020		
1522C/1522	2	6	40.000	30.659	6	595.000	456.945	-	0.1249	6	0.035	0.023	6	0.657	0.474	-	0.1401		
Habitat Means			8.667	6.798		140.909	102.820	-			0.007	0.005		0.147	0.102	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0252		Power	---		Power-50%	---	P-value	0.0368			
Stouffer's		Power	---		Power-50%	0.022	P-value	0.0750		Power	0.002		Power-50%	0.002	P-value	0.1277			
4825C/1424	3	5	1200.000	418.808	6	806.667	279.090	+	0.5008	5	1.054	0.431	6	0.795	0.299	+	0.5818		
453C/453	3	4	5195.000	2131.073	5	1566.000	1183.823	+	0.0683	4	3.925	1.436	5	1.156	0.741	-	0.1420		
601C/601	3	5	826.000	542.638	4	1828.325	1008.041	-	0.2856	5	0.624	0.417	4	2.230	1.265	-	0.4355		
598C/598	3	5	122.000	46.840	5	1338.000	1021.178	-	0.4836	5	0.132	0.053	5	1.006	0.723	-	0.5673		
1522C/1522	3	6	1091.667	553.368	5	788.000	388.862	+	0.7502	6	1.397	0.677	5	1.014	0.525	+	0.7659		
Habitat Means			1686.933	738.545		1265.398	776.199	-			1.426	0.603		1.240	0.711	+			
Fisher's		Power	0.001		Power-50%	0.006	P-value	0.2625		Power	0.000		Power-50%	0.002	P-value	0.3703			
Stouffer's		Power	0.000		Power-50%	0.058	P-value	0.3685		Power	0.000		Power-50%	0.028	P-value	0.3848			

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

Table D-68, Page 14, December 21, 1994

Table D-68, Page 14, December 21, 1994

Table D-68. Invertebrate Abundance and Biomass. Prince William Sound. Sheltered Rocky. May 1991. (Continued.)

Pagurus spp. - abundance (#/m^2)										Pagurus spp. - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	3.333	2.108	6	0.000	0.000	+	0.1277	6	0.000	0.000	6	0.000	0.000	+	0.0000
453C/453	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1522C/1522	1	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.008	0.008	6	0.000	0.000	+	0.3632
Habitat Means			1.333	1.088		0.000	0.000				0.022	0.017		0.000	0.000		
Fisher's	Power		0.687		Power-50%	3.552	P-value	0.2563		Power	0.529		Power-50%	0.103	P-value	0.2582	
Stouffer's	Power		0.555		Power-50%	3.509	P-value	0.3529		Power	0.000		Power-50%	0.093	P-value	0.3534	
4825C/1424	2	5	0.000	0.000	6	1.667	1.667	-	0.3632	5	0.000	0.000	6	0.548	0.548	-	0.5103
453C/453	2	3	13.333	13.333	6	1.667	1.667	-	0.4294	3	0.367	0.367	6	0.113	0.113	-	0.6020
601C/601	2	6	35.000	33.040	5	146.000	126.436	-	0.2273	6	0.295	0.277	5	1.538	1.176	-	0.2120
598C/598	2	6	16.667	9.189	6	578.333	366.419	-	0.2872	6	0.630	0.518	6	6.853	4.234	-	0.1630
1522C/1522	2	6	23.333	13.824	6	55.000	31.172	-	0.2949	6	0.700	0.439	6	1.152	0.894	-	0.1401
Habitat Means			17.667	13.877		156.533	105.472	-			0.398	0.320		2.041	1.393	-	
Fisher's	Power		0.022		Power-50%	1.209	P-value	0.1009		Power	---		Power-50%	---	P-value	0.0506	
Stouffer's	Power		0.022		Power-50%	1.337	P-value	0.1514		Power	---		Power-50%	---	P-value	0.0676	
4825C/1424	3	5	2.000	2.000	6	8.333	4.773	-	0.4473	5	0.006	0.006	6	0.147	0.089	-	0.3265
453C/453	3	4	360.000	277.699	5	28.000	16.553	+	0.0367	4	2.915	1.637	5	0.668	0.498	+	0.0940
601C/601	3	5	26.000	16.000	4	287.500	280.843	-	0.3254	5	0.274	0.182	4	2.912	2.856	-	0.6289
598C/598	3	5	8.000	8.000	5	14.660	9.915	-	0.4079	5	1.082	1.082	5	0.395	0.395	+	0.9844
1522C/1522	3	6	11.667	11.667	5	28.000	18.276	-	0.4051	6	0.025	0.025	5	0.312	0.203	-	0.3497
Habitat Means			81.533	63.073		73.299	66.072	-			0.860	0.586		0.887	0.808	-	
Fisher's	Power		0.002		Power-50%	1.302	P-value	0.2216		Power	0.003		Power-50%	0.445	P-value	0.3671	
Stouffer's	Power		0.003		Power-50%	1.413	P-value	0.4840		Power	0.000		Power-50%	0.552	P-value	0.6777	

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

Table D-68. Page 15. December 21, 1994

Nucella spp. - abundance (#/m^2)										Nucella spp. - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
4825C/1424	1	6	1.667	1.667	6	0.000	0.000	-	0.3632	6	4.635	4.635	6	0.000	0.000	-	0.3632
453C/453	1	6	1.667	1.667	6	5.000	5.000	-	0.8096	6	0.498	0.498	6	4.337	4.337	-	0.8706
601C/601	1	6	1.667	1.667	6	0.000	0.000	-	0.3632	6	0.820	0.820	6	0.000	0.000	-	0.3632
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1522C/1522	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			1.000	1.000		1.000	1.000	+			1.191	1.191		0.867	0.867	+	
Fisher's	Power		---		Power-50%	---	P-value	0.3867		Power	---		Power-50%	---	P-value	0.3782	
Stouffer's	Power		---		Power-50%	---	P-value	0.4172		Power	---		Power-50%	---	P-value	0.4011	
4825C/1424	2	5	12.000	9.695	6	0.000	0.000	+	0.1941	5	33.074	32.022	6	0.000	0.000	+	0.1868
453C/453	2	3	43.333	43.333	6	0.000	0.000	+	0.4226	3	21.557	21.557	6	0.000	0.000	+	0.4226
601C/601	2	6	0.000	0.000	5	2.000	2.000	-	0.3739	6	0.000	0.000	5	1.524	1.524	-	0.3739
598C/598	2	6	5.000	2.236	6	26.667	15.420	-	0.5440	6	3.107	1.652	6	32.438	19.006	-	0.7448
1522C/1522	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			12.067	11.053		5.733	3.484	+			11.548	11.046		6.792	4.106	+	
Fisher's	Power		0.025		Power-50%	0.273	P-value	0.4223		Power	0.005		Power-50%	0.086	P-value	0.3909	
Stouffer's	Power		0.002		Power-50%	0.349	P-value	0.5283		Power	0.007		Power-50%	0.137	P-value	0.4402	
4825C/1424	3	5	12.000	9.695	6	11.667	7.923	+	0.8624	5	43.652	36.549	6	22.000	15.698	+	0.8575
453C/453	3	4	60.000	40.825	5	4.000	4.000	+	0.0841	4	27.185	10.591	5	2.370	2.370	+	0.0986
601C/601	3	5	6.000	6.000	4	0.000	0.000	+	0.3739	5	0.012	0.012	4	0.000	0.000	+	0.3739
598C/598	3	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
1522C/1522	3	6	1.667	1.667	5	0.000	0.000	+	0.3632	6	0.003	0.003	5	0.000	0.000	+	0.3632
Habitat Means			15.933	11.637		3.133	2.385	+			14.170	9.431		4.874	3.614	+	
Fisher's	Power		---		Power-50%	---	P-value	0.0948		Power	0.675		Power-50%	0.262	P-value	0.1035	
Stouffer's	Power		---		Power-50%	0.348	P-value	0.0909		Power	---		Power-50%	---	P-value	0.0975	

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

Table D-68. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1991. (Continued.)

Site Pair	MVD	Nucella lima - abundance (#/m ²)									Nucella lima - biomass (g/m ²)								
		N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P	
4825C/1424	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
453C/453	1	6	1.667	1.667	6	5.000	5.000	-	0.8096		6	0.498	0.498	6	4.337	4.337	-	0.8706	
601C/601	1	6	1.667	1.667	6	0.000	0.000	+	0.3632		6	0.820	0.820	6	0.000	0.000	+	0.3632	
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
1522C/1522	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.667	0.667		1.000	1.000					0.264	0.264		0.867	0.867			
Fisher's	Power	---			Power-50%	---		P-value	0.5696 y		Power	---		Power-50%	---		P-value	0.5595 y	
Stouffer's	Power	---			Power-50%	---		P-value	0.4670		Power	---		Power-50%	---		P-value	0.4506	
4825C/1424	2	5	2.000	2.000	6	0.000	0.000	-	0.3739		5	0.850	0.850	6	0.000	0.000	-	0.3739	
453C/453	2	3	43.333	43.333	6	0.000	0.000	-	0.4226		3	21.557	21.557	6	0.000	0.000	-	0.4226	
601C/601	2	6	0.000	0.000	5	2.000	2.000	-	0.3739		6	0.000	0.000	5	1.524	1.524	-	0.3739	
598C/598	2	6	5.000	2.236	6	26.667	15.420	-	0.5440		6	3.107	1.652	6	32.438	19.006	-	0.7448	
1522C/1522	2	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			10.067	9.514		5.733	3.484					5.103	4.812		6.792	4.106			
Fisher's	Power	0.072			Power-50%	0.702		P-value	0.5418		Power	0.041		Power-50%	0.466		P-value	0.5137 y	
Stouffer's	Power	0.003			Power-50%	0.733		P-value	0.5509		Power	0.007		Power-50%	0.544		P-value	0.4639	
4825C/1424	3	5	0.000	0.000	6	0.000	0.000	o	1.0000		5	0.000	0.000	6	0.000	0.000	o	1.0000	
453C/453	3	4	0.000	0.000	5	2.000	2.000	-	0.3739		4	0.000	0.000	5	0.902	0.902	-	0.3739	
601C/601	3	5	0.000	0.000	4	0.000	0.000	o	1.0000		5	0.000	0.000	4	0.000	0.000	o	1.0000	
598C/598	3	5	0.000	0.000	5	0.000	0.000	o	1.0000		5	0.000	0.000	5	0.000	0.000	o	1.0000	
1522C/1522	3	6	0.000	0.000	5	0.000	0.000	o	1.0000		6	0.000	0.000	5	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.400	0.400					0.000	0.000		0.180	0.180			
Fisher's	Power	---			Power-50%	---		P-value	0.5417		Power	---		Power-50%	---		P-value	0.5417	
Stouffer's	Power	---			Power-50%	---		P-value	0.3186		Power	---		Power-50%	---		P-value	0.3186	

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

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Site Pair	MVD	Nucella lamellosa - abundance (#/m ²)									Nucella lamellosa - biomass (g/m ²)								
		N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P	
4825C/1424	1	6	1.667	1.667	6	0.000	0.000	+	0.3632		6	4.635	4.635	6	0.000	0.000	-	0.3632	
453C/453	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
601C/601	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
1522C/1522	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.333	0.333		0.000	0.000					0.927	0.927		0.000	0.000			
Fisher's	Power	---			Power-50%	---		P-value	0.5362		Power	---		Power-50%	---		P-value	0.5362	
Stouffer's	Power	---			Power-50%	---		P-value	0.4498		Power	---		Power-50%	---		P-value	0.4498	
4825C/1424	2	5	10.000	10.000	6	0.000	0.000	-	0.3739		5	32.224	32.224	6	0.000	0.000	-	0.3739	
453C/453	2	3	0.000	0.000	6	0.000	0.000	o	1.0000		3	0.000	0.000	6	0.000	0.000	o	1.0000	
601C/601	2	6	0.000	0.000	5	0.000	0.000	o	1.0000		6	0.000	0.000	5	0.000	0.000	o	1.0000	
598C/598	2	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
1522C/1522	2	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			2.000	2.000		0.000	0.000					6.445	6.445		0.000	0.000			
Fisher's	Power	---			Power-50%	---		P-value	0.5417		Power	---		Power-50%	---		P-value	0.5417	
Stouffer's	Power	---			Power-50%	---		P-value	0.4509		Power	---		Power-50%	---		P-value	0.4509	
4825C/1424	3	5	12.000	9.695	6	11.667	7.923	+	0.8624		5	43.652	36.549	6	22.000	15.698	-	0.8575	
453C/453	3	4	60.000	40.825	5	2.000	2.000	+	0.0571		4	27.185	10.591	5	1.468	1.468	+	0.0881	
601C/601	3	5	0.000	0.000	4	0.000	0.000	o	1.0000		5	0.000	0.000	4	0.000	0.000	o	1.0000	
598C/598	3	5	0.000	0.000	5	0.000	0.000	o	1.0000		5	0.000	0.000	5	0.000	0.000	o	1.0000	
1522C/1522	3	6	0.000	0.000	5	0.000	0.000	o	1.0000		6	0.000	0.000	5	0.000	0.000	o	1.0000	
Habitat Means			14.400	10.104		2.733	1.985					14.167	9.428		4.694	3.433			
Fisher's	Power	0.004			Power-50%	0.008		P-value	0.2263		Power	0.011		Power-50%	0.012		P-value	0.2786	
Stouffer's	Power	0.003			Power-50%	0.004		P-value	0.1507		Power	0.001		Power-50%	0.008		P-value	0.1763	

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

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Table D-68. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1991. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.045	0.045	6	0.000	0.000	+	0.3969		
453C/453	1	6	3.333	2.108	6	3.333	3.333	o	0.6922	6	0.032	0.032	6	0.005	0.005	+	0.7281		
601C/601	1	6	0.000	0.000	6	223.333	219.358	-	0.2158	6	0.000	0.000	6	1.402	1.388	-	0.2074		
598C/598	1	6	0.000	0.000	6	13.333	13.333	-	0.3632	6	0.000	0.000	6	0.015	0.015	-	0.3632		
1522C/1522	1	6	343.333	343.333	6	85.000	49.850	-	0.5206	6	0.748	0.748	6	0.823	0.517	-	0.3423		
Habitat Means			69.667	69.422		65.333	57.508	-			0.165	0.165		0.449	0.385	-			
Fisher's		Power	0.220		Power-50%	0.852	P-value	0.3810		Power	0.025		Power-50%	0.001	P-value	0.2338			
Stouffer's		Power	0.147		Power-50%	0.877	P-value	0.2581		Power	0.192		Power-50%	0.014	P-value	0.1859			
4825C/1424	2	5	0.000	0.000	6	23.333	23.333	-	0.5321	5	0.000	0.000	6	0.315	0.315	-	0.4583		
453C/453	2	3	96.667	73.106	6	16.667	10.853	+	0.2366	3	1.643	1.396	6	0.050	0.050	+	0.0556		
601C/601	2	6	18.333	14.701	5	166.000	146.274	-	0.2428	6	0.070	0.045	5	0.230	0.143	-	0.3401		
598C/598	2	6	3.333	2.108	6	236.667	236.667	-	0.7439	6	0.023	0.015	6	0.270	0.270	-	0.9083		
1522C/1522	2	6	100.000	53.104	6	535.000	254.922	-	0.0940	6	0.785	0.457	6	7.713	4.389	-	0.0334		
Habitat Means			43.667	28.604		195.533	134.410	-			0.504	0.383		1.716	1.033	-			
Fisher's		Power	0.596		Power-50%	0.335	P-value	0.1246		Power	---		Power-50%	---	P-value	0.0911			
Stouffer's		Power	0.365		Power-50%	0.543	P-value	0.3705		Power	0.156		Power-50%	0.453	P-value	0.5638			
4825C/1424	3	5	66.000	23.580	6	380.000	201.726	-	0.0265	5	1.474	0.545	6	2.872	1.206	-	0.2152		
453C/453	3	4	800.000	241.971	5	360.000	226.561	-	0.1465	4	10.977	2.603	5	3.504	2.030	-	0.1057		
601C/601	3	5	164.000	55.462	4	120.000	43.205	-	0.5474	5	1.524	0.581	4	0.340	0.135	-	0.1317		
598C/598	3	5	34.000	14.353	5	188.660	86.455	-	0.4907	5	0.092	0.051	5	0.872	0.503	-	0.2896		
1522C/1522	3	6	376.667	165.241	5	578.000	178.225	-	0.9332	6	1.434	0.364	5	7.714	4.030	-	0.9396		
Habitat Means			288.133	100.121		325.332	147.234	-			3.100	0.829		3.060	1.581	-			
Fisher's		Power	0.077		Power-50%	0.000	P-value	0.1836		Power	0.053		Power-50%	0.000	P-value	0.4336			
Stouffer's		Power	0.322		Power-50%	0.000	P-value	0.5196		Power	0.342		Power-50%	0.000	P-value	0.5782			

x No lower site data was available for this site pair.

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

z Only one site pair.

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
453C/453	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
601C/601	1	6	0.000	0.000	6	26.667	21.239	-	0.1826	6	0.000	0.000	6	0.108	0.101	-	0.1932		
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	1	6	0.000	0.000	6	13.333	9.888	-	0.1806	6	0.000	0.000	6	0.080	0.064	-	0.1798		
Habitat Means			0.000	0.000		8.333	6.559	-			0.000	0.000		0.038	0.033	-			
Fisher's		Power	0.945		Power-50%	---	P-value	0.1061		Power	0.604		Power-50%	---	P-value	0.1093			
Stouffer's		Power	0.997		Power-50%	---	P-value	0.2379		Power	0.000		Power-50%	---	P-value	0.2400			
4825C/1424	2	5	2.000	2.000	6	115.000	82.775	-	0.1652	5	0.014	0.014	6	0.040	0.029	-	0.3995		
453C/453	2	3	23.333	18.559	6	0.000	0.000	+	0.2104	3	0.001	0.001	6	0.000	0.000	+	0.1835		
601C/601	2	6	13.333	11.450	5	62.000	32.465	-	0.2635	6	0.082	0.082	5	0.472	0.252	-	0.1670		
598C/598	2	6	0.000	0.000	6	547.217	501.721	-	0.1046	6	0.000	0.000	6	1.538	1.454	-	0.1714		
1522C/1522	2	6	43.333	37.476	6	148.333	66.404	-	0.2761	6	0.493	0.345	6	5.445	3.730	-	0.3281		
Habitat Means			16.400	13.897		174.510	136.673	-			0.118	0.088		1.499	1.093	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0387		Power	---		Power-50%	---	P-value	0.0764			
Stouffer's		Power	0.162		Power-50%	0.271	P-value	0.1014		Power	0.010		Power-50%	0.134	P-value	0.1595			
4825C/1424	3	5	0.000	0.000	6	48.333	29.145	-	0.0300	5	0.000	0.000	6	2.290	2.234	-	0.0911		
453C/453	3	4	110.000	43.589	5	22.000	14.283	+	0.0458	4	0.720	0.369	5	0.112	0.078	-	0.0703		
601C/601	3	5	28.000	12.000	4	12.500	7.500	+	0.3860	5	0.292	0.211	4	0.105	0.063	-	0.4444		
598C/598	3	5	2.000	2.000	5	16.000	9.274	-	0.1742	5	0.006	0.006	5	0.090	0.046	-	0.1500		
1522C/1522	3	6	73.883	31.119	5	24.000	11.662	+	0.3354	6	0.568	0.350	5	1.198	1.146	-	0.7675		
Habitat Means			42.777	17.742		24.567	14.373	-			0.317	0.187		0.759	0.713	-			
Fisher's		Power	0.002		Power-50%	0.025	P-value	0.1463		Power	0.232		Power-50%	0.006	P-value	0.1800			
Stouffer's		Power	0.000		Power-50%	0.067	P-value	0.4586		Power	0.260		Power-50%	0.016	P-value	0.3911			

A. All tests are two-tailed tests. Fisher's P-values are one-tailed tests.
 y. Direction of difference between habitat means is different than direction of overall tests.
 z. Only one site pair.

Table D-68, Page 19, December 21, 1994

Table D-68. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1991. (Continued.)

Errant polychaetes - abundance (#/m^2)										Errant polychaetes - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.005	0.005	-	0.3632		
601C/601	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.217	0.217	-	0.3632		
Habitat Means			0.000	0.000		1.333	1.333	-			0.000	0.000		0.045	0.045	-			
Fisher's	Power		---		Power-50%	---		P-value	0.2232	Power	---		Power-50%	---		P-value	0.2232		
Stouffer's	Power		---		Power-50%	---		P-value	0.1890	Power	---		Power-50%	---		P-value	0.1890		
4825C/1424	2	5	16.660	10.847	6	0.000	0.000	+	0.1794	5	0.031	0.021	6	0.000	0.000	-	0.1800		
453C/453	2	3	26.667	21.858	6	1.667	1.667	+	0.1107	3	0.017	0.009	6	0.000	0.000	+	0.1934		
601C/601	2	6	3.333	3.333	5	236.000	221.192	-	0.1350	6	0.033	0.033	5	0.755	0.520	-	0.1148		
598C/598	2	6	30.000	26.204	6	45.000	25.528	-	0.5469	6	0.060	0.047	6	0.004	0.003	+	0.4303		
1522C/1522	2	6	6.667	4.944	6	20.000	11.832	-	0.4780	6	0.008	0.005	6	0.482	0.376	-	0.2418		
Habitat Means			16.665	13.437		60.533	52.044	-			0.030	0.023		0.248	0.180	+			
Fisher's	Power		0.023		Power-50%	0.471		P-value	0.3460	Power	0.393		Power-50%	0.776		P-value	0.2272 y		
Stouffer's	Power		0.012		Power-50%	0.607		P-value	0.5287	Power	0.506		Power-50%	0.855		P-value	0.1894		
4825C/1424	3	5	2.000	2.000	6	76.667	31.482	-	0.0579	5	0.000	0.000	6	0.095	0.055	-	0.0781		
453C/453	3	4	117.500	65.112	5	0.000	0.000	+	0.0864	4	0.218	0.150	5	0.000	0.000	+	0.0934		
601C/601	3	5	6.000	2.449	4	135.850	132.538	-	0.6325	5	0.000	0.000	4	0.048	0.038	-	0.2356		
598C/598	3	5	320.000	199.274	5	136.000	116.516	+	0.8289	5	0.168	0.112	5	0.102	0.092	-	0.8305		
1522C/1522	3	6	6.667	3.333	5	12.000	8.000	-	0.9651	6	0.027	0.019	5	0.000	0.000	-	0.1950		
Habitat Means			90.433	54.434		72.103	57.707	-			0.083	0.056		0.049	0.037	-			
Fisher's	Power		0.033		Power-50%	0.266		P-value	0.2849xy	Power	0.007		Power-50%	0.134		P-value	0.2309x		
Stouffer's	Power		0.045		Power-50%	0.454		P-value	0.7562	Power	0.021		Power-50%	0.316		P-value	0.2101		

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

Table D-68, Page 21, December 21, 1994

Sedentary polychaetes - abundance (#/m^2)										Sedentary polychaetes - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
4825C/1424	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
601C/601	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.002	0.002	-	0.3632		
598C/598	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1522C/1522	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.333	0.333	-			0.000	0.000		0.000	0.000	-			
Fisher's	Power		---		Power-50%	---		P-value	0.5362	Power	---		Power-50%	---		P-value	0.5362		
Stouffer's	Power		---		Power-50%	---		P-value	0.4167	Power	---		Power-50%	---		P-value	0.4167		
4825C/1424	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
453C/453	2	3	3.333	3.333	6	0.000	0.000	+	0.4226	3	0.007	0.007	6	0.000	0.000	+	0.4226		
601C/601	2	6	1.667	1.667	5	96.000	96.000	-	0.5036	6	0.000	0.000	5	0.213	0.213	-	0.3955		
598C/598	2	6	88.333	88.333	6	5.000	5.000	+	0.6996	6	0.175	0.175	6	0.000	0.000	+	0.4106		
1522C/1522	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			18.667	18.667		20.200	20.200	-			0.036	0.036		0.043	0.043	+			
Fisher's	Power		---		Power-50%	---		P-value	0.5741 y	Power	---		Power-50%	---		P-value	0.4864 y		
Stouffer's	Power		---		Power-50%	---		P-value	0.2844	Power	---		Power-50%	---		P-value	0.1929		
4825C/1424	3	5	78.000	68.440	6	221.667	134.249	-	0.4390	5	0.660	0.660	6	0.572	0.568	-	0.8696		
453C/453	3	4	220.000	182.209	5	0.000	0.000	+	0.1898	4	0.008	0.007	5	0.000	0.000	-	0.2960		
601C/601	3	5	2.000	2.000	4	815.825	578.252	-	0.1467	5	0.000	0.000	4	1.138	0.886	-	0.1921		
598C/598	3	5	388.000	354.040	5	114.000	109.069	+	0.7671	5	1.058	0.667	5	0.116	0.116	-	0.4585		
1522C/1522	3	6	1.667	1.667	5	30.000	30.000	-	0.5639	6	0.008	0.008	5	0.044	0.044	-	0.7348		
Habitat Means			137.933	121.671		236.298	170.314	-			0.347	0.268		0.374	0.323	-			
Fisher's	Power		0.052		Power-50%	0.241		P-value	0.2880	Power	0.024		Power-50%	0.058		P-value	0.4808 y		
Stouffer's	Power		0.021		Power-50%	0.371		P-value	0.6413	Power	0.078		Power-50%	0.136		P-value	0.2177		

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

Table D-68, Page 22, December 21, 1994

Table D-68. Invertebrate Abundance and Biomass. Prince William Sound, Sheltered Rocky, May 1991. (Continued.)

Site Pair	MVD	Oligochaeta - abundance (#/m ²)									Oligochaeta - biomass (g/m ²)								
		N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P	
4825C/1424	1	6	25.000	25.000	6	0.000	0.000	+	0.3632		6	0.007	0.007	6	0.000	0.000	+	0.3632	
453C/453	1	6	41.667	41.667	6	50.000	50.000	-	0.9822		6	0.028	0.028	6	0.007	0.007	+	0.8264	
601C/601	1	6	10.000	6.831	6	3328.333	2989.983	-	0.2844		6	0.023	0.023	6	1.693	1.454	-	0.3439	
598C/598	1	6	91.667	87.689	6	81.667	54.309	+	0.9888		6	0.047	0.043	6	0.053	0.044	-	0.9518	
1522C/1522	1	6	726.667	718.696	6	1186.667	1162.800	-	0.7566		6	0.988	0.984	6	0.140	0.134	+	0.9156	
Habitat Means			179.000	175.977		929.333	851.418	-				0.219	0.217		0.379	0.328	+		
Fisher's			Power	0.012		Power-50%	0.175	P-value	0.5290		Power	0.044		Power-50%	0.090	P-value	0.5887	y	
Stouffer's			Power	0.007		Power-50%	0.272	P-value	0.4259		Power	0.034		Power-50%	0.174	P-value	0.5006		
4825C/1424	2	5	25.340	20.705	6	3.333	2.108	+	0.6234		5	0.034	0.032	6	0.003	0.003	-	0.4096	
453C/453	2	3	256.667	113.186	6	10.000	6.831	+	0.0246		3	0.080	0.032	6	0.005	0.003	-	0.0077	
601C/601	2	6	51.667	32.804	5	138.660	75.287	-	0.2815		6	0.048	0.039	5	0.006	0.044	-	0.1887	
598C/598	2	6	43.333	20.276	6	2328.884	1472.112	-	0.3116		6	0.017	0.011	6	1.227	0.804	-	0.4616	
1522C/1522	2	6	381.667	205.255	6	1061.667	701.429	-	0.8430		6	0.077	0.041	6	0.225	0.144	-	0.7029	
Habitat Means			151.735	78.445		708.509	451.553	-				0.051	0.031		0.313	0.200	-		
Fisher's			Power	0.046		Power-50%	0.197	P-value	0.4283	x	Power	0.021		Power-50%	0.068	P-value	0.4222	x	
Stouffer's			Power	0.064		Power-50%	0.401	P-value	0.5733		Power	0.111		Power-50%	0.261	P-value	0.7168		
4825C/1424	3	5	106.000	61.935	6	163.333	76.012	-	0.7420		5	0.024	0.015	6	0.023	0.019	+	0.8045	
453C/453	3	4	1810.000	874.957	5	58.000	38.262	+	0.0091		4	0.560	0.265	5	0.016	0.010	+	0.0459	
601C/601	3	5	116.000	39.319	4	220.825	111.450	-	0.6322		5	0.134	0.122	4	0.050	0.041	+	0.8521	
598C/598	3	5	340.000	178.410	5	372.000	122.123	-	0.8724		5	0.300	0.180	5	0.446	0.201	-	0.8511	
1522C/1522	3	6	607.217	371.581	5	194.000	146.103	+	0.6200		6	0.847	0.653	5	0.064	0.030	+	0.5055	
Habitat Means			595.843	305.240		201.632	98.790	-				0.373	0.247		0.120	0.060	+		
Fisher's			Power	0.018		Power-50%	0.002	P-value	0.7537	xy	Power	0.000		Power-50%	0.000	P-value	0.1344		
Stouffer's			Power	0.054		Power-50%	0.013	P-value	0.8861		Power	0.000		Power-50%	0.007	P-value	0.1294		

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

Table D-68, Page 23, December 21, 1994

Site Pair	MVD	Total Invertebrates - abundance (#/m ²)									Total Invertebrates - biomass (g/m ²)								
		N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P	
4825C/1424	1	6	1911.667	914.095	6	13655.000	9280.302	-	0.6778		6	112.110	57.068	6	136.164	67.626	-	0.8990	
453C/453	1	6	6983.333	3068.037	6	1121.667	917.767	+	0.0280		6	186.887	66.887	6	55.617	36.455	-	0.0673	
601C/601	1	6	4298.333	1849.617	6	6956.667	3239.860	-	0.3766		6	462.960	219.453	6	467.082	159.706	-	0.4410	
598C/598	1	6	2961.667	757.106	6	2856.667	980.176	+	0.4871		6	267.428	44.688	6	203.725	104.716	-	0.3021	
1522C/1522	1	6	11225.000	4980.365	6	20783.334	7504.802	-	0.4163		6	781.394	304.835	6	729.437	212.484	+	0.5958	
Habitat Means			5476.000	2313.844		9074.667	4384.581	-				362.156	138.586		318.409	116.197	-		
Fisher's			Power	0.008		Power-50%	0.000	P-value	0.5105	x	Power	0.000		Power-50%	0.000	P-value	0.1443		
Stouffer's			Power	0.044		Power-50%	0.000	P-value	0.8986		Power	---		Power-50%	---	P-value	0.0459		
4825C/1424	2	5	2213.320	1042.374	6	26340.000	9947.346	-	0.0003		5	103.811	47.105	6	177.310	41.738	-	0.1594	
453C/453	2	3	38723.332	18674.799	6	1278.333	312.244	+	0.0016		3	2827.991	2673.208	6	89.945	20.756	+	0.0395	
601C/601	2	6	5405.000	2233.629	5	7153.320	1884.484	-	0.4211		6	857.187	438.335	5	836.642	274.162	+	0.5347	
598C/598	2	6	10155.000	1691.480	6	11093.883	4071.078	-	0.7310		6	1268.518	332.602	6	574.467	131.358	+	0.2412	
1522C/1522	2	6	8031.667	2482.677	6	22363.334	7568.225	-	0.1475		6	811.328	186.410	6	1170.845	666.358	-	0.8579	
Habitat Means			12905.664	5224.992		13645.774	4756.675	-				1173.767	735.532		569.842	226.874	+		
Fisher's			Power	---		Power-50%	---	P-value	0.0018	x	Power	---		Power-50%	---	P-value	0.0995		
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.6622		Power	---		Power-50%	---	P-value	0.0279		
4825C/1424	3	5	3830.000	1098.995	6	14703.333	1072.802	-	0.0034		5	54.849	39.204	6	124.774	16.946	-	0.0200	
453C/453	3	4	24992.500	10790.762	5	8788.000	2986.462	+	0.1617		4	465.248	295.189	5	213.681	84.942	+	0.4516	
601C/601	3	5	5656.000	1986.737	4	6315.800	792.282	-	0.6078		5	558.734	339.959	4	209.164	134.552	+	0.5491	
598C/598	3	5	6192.000	1569.632	5	4865.300	627.568	+	0.7796		5	492.185	218.255	5	172.861	61.188	+	0.2033	
1522C/1522	3	6	7297.750	2032.627	5	7148.000	2558.119	+	0.8883		6	488.230	153.987	5	140.443	78.532	+	0.0189	
Habitat Means			9593.650	3495.751		8364.087	1607.447	+				411.849	209.319		172.185	75.232	-		
Fisher's			Power	0.000		Power-50%	0.000	P-value	0.5071	x	Power	---		Power-50%	---	P-value	0.0346	x	
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.3217		Power	---		Power-50%	---	P-value	0.0455		

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

Table D-68, Page 24, December 21, 1994

Table D-69. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	35.000	20.777	4	52.500	24.958	-	0.4359	6	3.972	2.732	4	8.168	2.890	-	0.3672		
1598C/1598	1	5	26.000	14.697	5	6.000	4.000	-	0.3671	5	3.214	1.716	5	0.504	0.311	-	0.4399		
846C/846	1	6	0.000	0.000	6	41.117	26.232	-	0.1748	6	0.000	0.000	6	3.937	2.519	-	0.1747		
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
Habitat Means			15.250	8.868		24.904	13.798	-			1.797	1.112		3.152	1.430	-			
Fisher's		Power	0.095		Power-50%	0.024	P-value	0.2857		Power	0.093		Power-50%	0.005	P-value	0.2547			
Stouffer's		Power	0.104		Power-50%	0.046	P-value	0.6773		Power	0.078		Power-50%	0.027	P-value	0.6327			
506C/506	2	6	36.667	19.090	4	112.500	49.561	-	0.0110	6	9.287	5.410	4	16.432	6.918	-	0.3584		
1598C/1598	2	5	22.400	22.400	5	16.000	10.296	+	0.8184	5	1.513	1.513	5	1.410	1.100	-	0.6143		
846C/846	2	6	6.667	4.944	6	32.417	17.393	-	0.3149	6	0.192	0.122	6	3.057	1.739	-	0.2257		
1650C/1650	2	6	20.333	11.552	5	10.000	5.477	+	0.6988	6	2.071	1.318	5	0.640	0.365	-	0.9765		
Habitat Means			21.517	14.497		42.729	20.682	-			3.266	2.091		5.385	2.531	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0422		Power	0.001		Power-50%	0.582	P-value	0.2739			
Stouffer's		Power	0.000		Power-50%	0.478	P-value	0.5067		Power	0.001		Power-50%	0.463	P-value	0.3543			
506C/506	3	5	6.000	6.000	4	60.000	53.541	-	0.2642	5	0.702	0.702	4	1.543	1.135	-	0.4205		
1598C/1598	3	4	5.000	5.000	4	20.825	12.930	-	0.4126	4	0.502	0.502	4	1.925	1.160	-	0.1996		
846C/846	3	5	12.000	7.348	5	28.360	11.748	-	0.6028	5	0.482	0.248	5	1.993	0.857	-	0.1299		
1650C/1650	3	6	6.667	6.667	5	16.660	9.882	-	0.2704	6	0.248	0.248	5	1.212	0.646	-	0.3078		
Habitat Means			7.417	6.254		31.461	22.025	-			0.484	0.425		1.668	0.950	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0926		Power	---		Power-50%	---	P-value	0.0307			
Stouffer's		Power	0.020		Power-50%	0.355	P-value	0.1193		Power	---		Power-50%	---	P-value	0.0313			

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

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

z Only one site pair.

Lottia pelta - abundance (#/m ²)										Lottia Pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	15.000	13.102	4	7.500	7.500	+	0.8208	6	2.230	2.151	4	1.797	1.798	+	0.8997		
1598C/1598	1	5	2.000	2.000	5	0.000	0.000	+	0.3739	5	0.836	0.836	5	0.000	0.000	+	0.3739		
846C/846	1	6	0.000	0.000	6	17.783	17.783	-	0.3632	6	0.000	0.000	6	1.813	1.813	-	0.3632		
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
Habitat Means			4.250	3.776		6.321	6.321	+			0.767	0.747		0.903	0.903	+			
Fisher's		Power	0.007		Power-50%	0.014	P-value	0.5451 y		Power	0.000		Power-50%	0.002	P-value	0.5651 y			
Stouffer's		Power	0.039		Power-50%	0.056	P-value	0.2819		Power	0.010		Power-50%	0.014	P-value	0.2821			
506C/506	2	6	33.333	18.379	4	52.500	25.617	-	0.4940	6	9.072	5.270	4	10.905	6.039	-	0.5277		
1598C/1598	2	5	0.000	0.000	5	2.000	2.000	-	0.3739	5	0.000	0.000	5	0.190	0.190	-	0.3739		
846C/846	2	6	0.000	0.000	6	17.083	17.083	-	0.3632	6	0.000	0.000	6	1.597	1.597	-	0.3632		
1650C/1650	2	6	6.667	4.944	5	4.000	2.449	+	0.9886	6	1.203	0.764	5	0.242	0.152	+	0.9435		
Habitat Means			10.000	5.831		18.896	11.787	-			2.569	1.509		3.234	1.995	-			
Fisher's		Power	0.702		Power-50%	0.070	P-value	0.2059		Power	0.736		Power-50%	0.166	P-value	0.2189			
Stouffer's		Power	0.866		Power-50%	0.000	P-value	0.1406		Power	0.825		Power-50%	0.000	P-value	0.1437			
506C/506	3	5	6.000	6.000	4	0.000	0.000	+	0.3739	5	0.702	0.702	4	0.000	0.000	-	0.3739		
1598C/1598	3	4	0.000	0.000	4	2.500	2.500	-	0.3910	4	0.000	0.000	4	0.452	0.452	-	0.3910		
846C/846	3	5	0.000	0.000	5	20.360	12.468	-	0.1778	5	0.000	0.000	5	1.475	0.921	-	0.1779		
1650C/1650	3	6	0.000	0.000	5	10.660	10.660	-	0.3739	6	0.000	0.000	5	0.608	0.608	-	0.3739		
Habitat Means			1.500	1.500		8.380	6.407	-			0.176	0.176		0.634	0.495	-			
Fisher's		Power	0.770		Power-50%	---	P-value	0.1570		Power	0.979		Power-50%	---	P-value	0.1570			
Stouffer's		Power	---		Power-50%	---	P-value	0.0837		Power	---		Power-50%	---	P-value	0.0837			

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

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

z Only one site pair.

Table D-69. Page 1. December 21, 1994

Table D-69. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. June 1990. (Continued.)

Tectura persona - abundance (#/m ²)										Tectura persona - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	13.333	13.333	4	40.000	26.141	-	0.3215	6	1.083	1.083	4	5.888	3.411	-	0.2853		
1598C/1598	1	5	24.000	15.033	5	6.000	4.000	+	0.4173	5	2.378	1.750	5	0.504	0.311	-	0.5260		
846C/846	1	6	0.000	0.000	6	16.667	11.738	-	0.1778	6	0.000	0.000	6	1.797	1.371	-	0.1761		
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
Habitat Means			9.333	7.092		15.667	10.470	-			0.865	0.708		2.047	1.273	-			
Fisher's	Power		0.097		Power-50%	0.026	P-value	0.2413		Power	0.135		Power-50%	0.006	P-value	0.2162			
Stouffer's	Power		0.052		Power-50%	0.055	P-value	0.6470		Power	0.140		Power-50%	0.026	P-value	0.5834			
506C/506	2	6	1.667	1.667	4	52.500	33.510	-	0.0992	6	0.158	0.158	4	4.840	3.192	-	0.1761		
1598C/1598	2	5	22.400	22.400	5	14.000	8.718	+	0.6629	5	1.513	1.513	5	1.220	0.917	+	0.5797		
846C/846	2	6	6.667	4.944	6	10.000	6.325	-	0.6598	6	0.192	0.122	6	1.247	1.076	-	0.5379		
1650C/1650	2	6	8.333	5.426	5	4.000	4.000	+	0.6579	6	0.718	0.549	5	0.296	0.296	+	0.6566		
Habitat Means			9.767	8.609		20.125	13.138	-			0.645	0.586		1.901	1.370	-			
Fisher's	Power		0.068		Power-50%	0.747	P-value	0.2773		Power	0.068		Power-50%	0.714	P-value	0.3451			
Stouffer's	Power		0.010		Power-50%	0.593	P-value	0.6490		Power	0.000		Power-50%	0.568	P-value	0.6721			
506C/506	3	5	0.000	0.000	4	5.000	5.000	-	0.3910	5	0.000	0.000	4	0.340	0.340	-	0.3910		
1598C/1598	3	4	0.000	0.000	4	18.325	12.575	-	0.1874	4	0.000	0.000	4	1.472	0.851	-	0.1817		
846C/846	3	5	4.000	2.449	5	8.000	8.000	-	0.8249	5	0.270	0.173	5	0.518	0.518	-	0.6597		
1650C/1650	3	6	1.667	1.667	5	4.000	4.000	-	0.7734	6	0.100	0.100	5	0.496	0.496	-	0.7931		
Habitat Means			1.417	1.029		8.831	7.394	-			0.093	0.068		0.707	0.551	-			
Fisher's	Power		0.969		Power-50%	0.515	P-value	0.1665		Power	0.998		Power-50%	0.405	P-value	0.1455			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0867		Power	---		Power-50%	---	P-value	0.0761			

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

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

z Only one site pair.

Tectura scutum - abundance (#/m ²)										Tectura scutum - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	5.000	3.416	4	0.000	0.000	+	0.1784	6	0.270	0.185	4	0.000	0.000	+	0.1755		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
Habitat Means			1.250	0.854		0.000	0.000	+			0.068	0.046		0.000	0.000	+			
Fisher's	Power		0.092		Power-50%	0.030	P-value	0.3429		Power	0.086		Power-50%	0.029	P-value	0.3402			
Stouffer's	Power		0.025		Power-50%	0.000	P-value	0.4973		Power	0.000		Power-50%	0.000	P-value	0.4973			
506C/506	2	6	1.667	1.667	4	5.000	2.887	-	0.3122	6	0.057	0.057	4	0.470	0.301	-	0.2544		
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	2	6	0.000	0.000	6	5.333	5.333	-	0.3632	6	0.000	0.000	6	0.213	0.213	-	0.3632		
1650C/1650	2	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.417	0.417		2.583	2.055	-			0.014	0.014		0.171	0.129	-			
Fisher's	Power		0.180		Power-50%	---	P-value	0.2722		Power	0.497		Power-50%	---	P-value	0.2440			
Stouffer's	Power		0.035		Power-50%	---	P-value	0.3990		Power	0.000		Power-50%	---	P-value	0.3987			
506C/506	3	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	3	4	5.000	5.000	4	0.000	0.000	+	0.3910	4	0.502	0.502	4	0.000	0.000	+	0.3910		
846C/846	3	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
1650C/1650	3	6	0.000	0.000	5	2.000	2.000	-	0.3739	6	0.000	0.000	5	0.108	0.108	-	0.3739		
Habitat Means			1.250	1.250		0.500	0.500	-			0.126	0.126		0.027	0.027	-			
Fisher's	Power		---		Power-50%	---	P-value	0.5846 y		Power	---		Power-50%	---	P-value	0.5846 y			
Stouffer's	Power		---		Power-50%	---	P-value	0.7197		Power	---		Power-50%	---	P-value	0.7197			

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

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

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-69, Page 3, December 21, 1994

Table D-69. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, June 1990. (Continued.)

Balanomorpha - abundance (#/m^2)										Balanomorpha - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	715.767	205.822	4	72.500	50.888	+	0.1573	6	42.738	10.241	4	3.837	2.819	+	0.2959
1598C/1598	1	5	4291.600	3535.556	5	165.120	17.169	+	0.0174	5	292.108	232.281	5	10.147	6.705	+	0.0199
846C/846	1	6	205.417	110.805	6	707.050	430.526	-	0.8635	6	18.712	6.213	6	73.419	56.788	-	0.6333
1650C/1650	1	6	276.667	276.667	4	5.000	5.000	-	0.7902	6	23.876	23.876	4	0.207	0.207	+	0.9186
Habitat Means			1372.363	1032.213		237.418	150.896	.			94.359	68.153		21.903	16.630	-	
Fisher's	Power		---		Power=50%	---		P-value	0.0248	Power	---		Power=50%	---		P-value	0.0525
Stouffer's	Power		---		Power=50%	0.000		P-value	0.0127	Power	---		Power=50%	---		P-value	0.0195
506C/506	2	6	1091.817	281.830	4	763.075	479.067	+	0.6726	6	240.015	57.865	4	69.611	27.674	-	0.1002
1598C/1598	2	5	1857.740	701.753	5	1304.880	252.089	+	0.4694	5	254.195	133.597	5	71.525	32.045	-	0.0732
846C/846	2	6	290.967	101.292	6	1798.667	421.224	-	0.0357	6	54.971	22.460	6	226.593	80.338	-	0.0655
1650C/1650	2	6	2458.900	832.488	5	864.000	604.364	+	0.0342	6	128.534	54.678	5	79.112	59.170	+	0.6050
Habitat Means			1424.856	479.341		1182.656	439.186	+			169.429	67.150		111.710	49.807	-	
Fisher's	Power		0.000		Power=50%	0.000		P-value	0.1035x	Power	---		Power=50%	---		P-value	0.0580x
Stouffer's	Power		0.000		Power=50%	0.000		P-value	0.2713	Power	---		Power=50%	---		P-value	0.0982
506C/506	3	5	898.740	326.532	4	108.850	66.933	+	0.0553	5	205.680	58.328	4	4.479	3.192	+	0.0560
1598C/1598	3	4	423.325	289.829	4	2821.550	1347.114	-	0.0845	4	35.970	51.598	4	225.486	110.950	-	0.1407
846C/846	3	5	346.640	175.664	5	998.760	354.916	-	0.1370	5	57.407	40.635	5	137.092	58.500	-	0.2470
1650C/1650	3	6	2167.783	1013.706	5	206.000	203.509	+	0.0016	6	114.135	70.121	5	18.150	18.142	+	0.0106
Habitat Means			959.122	451.433		1033.790	493.118	+			108.298	55.171		96.302	47.696	+	
Fisher's	Power		---		Power=50%	---		P-value	0.0056xy	Power	---		Power=50%	---		P-value	0.0209
Stouffer's	Power		0.000		Power=50%	0.023		P-value	0.8925	Power	0.001		Power=50%	0.008		P-value	0.0005

1. Direction of difference between habitat means is different than direction of overall tests.
2. Only one site pair.

Table D-69, Page 5. December 21, 1994

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
506C/506	1	6	138.333	138.333	4	12.500	12.500	+	0.9337	6	0.448	0.448	4	0.095	0.095	-	0.9353	
1598C/1598	1	5	242.000	242.000	5	0.000	0.000	+	0.3739	5	1.426	1.426	5	0.000	0.000	-	0.3739	
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000	
Habitat Means			95.083	95.083		3.125	3.125	+			0.469	0.469		0.024	0.024	+		
Fisher's	Power		---		Power-50%		---	P-value	0.4684	Power		---		Power-50%		---	P-value	0.4687
Stouffer's	Power		---		Power-50%		---	P-value	0.2040	Power		---		Power-50%		---	P-value	0.2040
506C/506	2	6	3.333	3.333	4	135.225	107.342	-	0.1614	6	0.010	0.010	4	1.306	1.085	-	0.1527	
1598C/1598	2	5	0.000	0.000	5	2.000	2.000	-	0.3739	5	0.000	0.000	5	0.004	0.004	-	0.3739	
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
1650C/1650	2	6	11.667	7.491	5	6.000	6.000	-	0.6389	6	0.097	0.062	5	0.126	0.126	-	0.7412	
Habitat Means			3.750	2.706		35.806	28.836	-			0.027	0.018		0.359	0.304	-		
Fisher's	Power		0.452		Power-50%	0.500		P-value	0.2289	Power	0.703		Power-50%	0.529		P-value	0.1571	
Stouffer's	Power		0.450		Power-50%	0.000		P-value	0.2357	Power	0.692		Power-50%	0.000		P-value	0.1803	
506C/506	3	5	0.000	0.000	4	11.925	8.909	-	0.1951	5	0.000	0.000	4	0.121	0.099	-	0.1909	
1598C/1598	3	4	0.000	0.000	4	5.000	2.887	-	0.1817	4	0.000	0.000	4	0.018	0.017	-	0.3421	
846C/846	3	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000	
1650C/1650	3	6	65.000	36.492	5	16.000	16.000	+	0.2146	6	0.137	0.061	5	0.086	0.086	+	0.2113	
Habitat Means			16.250	9.123		8.231	6.949	-			0.034	0.013		0.056	0.051	-		
Fisher's	Power		0.421		Power-50%	0.000		P-value	0.1980 y	Power	0.141		Power-50%	0.000		P-value	0.2765	
Stouffer's	Power		0.628		Power-50%	0.000		P-value	0.1716	Power	0.068		Power-50%	0.000		P-value	0.2787	

1. Direction of difference between habitat means is different than direction of overall tests.
2. Only one site pair.

Table D-69, Page 6. December 21, 1994

Table D-69. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, June 1990. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	47.133	27.138	4	7.500	4.787	-	0.4298	6	3.741	2.316	4	0.230	0.158	+	0.5151		
1598C/1598	1	5	250.800	155.353	5	29.560	25.345	+	0.1217	5	10.152	6.610	5	1.034	0.830	+	0.1594		
846C/846	1	6	0.000	0.000	6	16.667	9.888	-	0.0852	6	0.000	0.000	6	1.392	0.730	-	0.0767		
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
Habitat Means			74.483	45.623		13.432	10.005	+			3.473	2.232		0.664	0.430	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.2548x		Power	0.000		Power-50%	0.000	P-value	0.3227x			
Stouffer's		Power	0.000		Power-50%	0.006	P-value	0.1664		Power	0.000		Power-50%	0.002	P-value	0.2051			
506C/506	2	6	153.333	84.050	4	32.500	19.738	+	0.1087	6	48.623	25.761	4	3.602	2.281	+	0.0411		
1598C/1598	2	5	86.000	67.794	5	106.000	36.139	-	0.2963	5	4.072	2.980	5	4.520	1.685	-	0.2919		
846C/846	2	6	6.667	3.333	6	21.667	14.472	-	0.6883	6	0.837	0.463	6	0.550	0.376	+	0.8943		
1650C/1650	2	6	98.667	42.148	5	106.000	70.257	-	0.1808	6	6.607	2.449	5	9.238	6.532	-	0.1594		
Habitat Means			86.167	49.331		66.542	35.152	-			15.035	7.913		4.478	2.719	-			
Fisher's		Power	0.252		Power-50%	0.055	P-value	0.2091 y		Power	0.013		Power-50%	0.033	P-value	0.2749			
Stouffer's		Power	---		Power-50%	0.180	P-value	0.0810		Power	0.091		Power-50%	0.155	P-value	0.8988			
506C/506	3	5	44.000	20.396	4	5.000	5.000	+	0.4843	5	5.092	1.666	4	0.340	0.340	+	0.2662		
1598C/1598	3	4	35.000	35.000	4	115.000	73.201	-	0.1784	4	1.673	1.673	4	4.790	3.170	-	0.4862		
846C/846	3	5	68.000	51.323	5	78.340	47.904	-	0.8435	5	8.292	5.970	5	4.372	3.243	-	0.3295		
1650C/1650	3	6	50.000	21.602	5	10.000	10.000	+	0.4274	6	2.092	1.048	5	0.536	0.536	+	0.6841		
Habitat Means			49.250	32.080		52.085	34.026	-			4.287	2.589		2.510	1.822	+			
Fisher's		Power	0.158		Power-50%	0.179	P-value	0.4739		Power	0.020		Power-50%	0.199	P-value	0.2418			
Stouffer's		Power	0.110		Power-50%	0.208	P-value	0.1335		Power	0.081		Power-50%	0.235	P-value	0.6080			

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

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

z Only one site pair.

Table D-59, Page 7, December 21, 1994

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	350.383	80.087	4	45.000	45.000	+	0.0362	6	34.152	9.306	4	2.592	2.592	+	0.0289		
1598C/1598	1	5	3572.400	2973.426	5	128.000	90.022	+	0.0201	5	274.000	222.885	5	7.886	4.973	+	0.0206		
846C/846	1	6	120.167	60.520	6	605.550	388.910	-	0.9156	6	16.507	5.432	6	70.761	56.029	-	0.6232		
1650C/1650	1	6	267.783	267.783	4	0.000	0.000	+	0.4749	6	23.840	23.840	4	0.000	0.000	+	0.4884		
Habitat Means			1077.683	845.454		194.638	130.983	-			87.125	65.366		20.310	15.899	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0063		Power	---		Power-50%	---	P-value	0.0067			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0103		Power	---		Power-50%	---	P-value	0.0140			
506C/506	2	6	891.667	256.663	4	520.000	345.519	+	0.5586	6	189.953	57.281	4	62.895	26.284	+	0.1951		
1598C/1598	2	5	1415.340	588.672	5	964.880	232.334	+	0.4700	5	236.976	128.373	5	53.710	28.747	+	0.0599		
846C/846	2	6	203.883	91.037	6	1461.600	343.958	-	0.0320	6	52.999	22.115	6	216.080	76.707	-	0.0663		
1650C/1650	2	6	1748.450	677.580	5	646.000	462.835	-	0.0703	6	117.656	51.943	5	67.970	51.153	+	0.5854		
Habitat Means			1064.835	403.488		898.120	346.162	-			149.396	64.928		100.164	45.723	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1435x		Power	---		Power-50%	---	P-value	0.0768x			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.3008		Power	---		Power-50%	---	P-value	0.0835			
506C/506	3	5	644.000	300.875	4	55.000	35.707	+	0.0569	5	134.088	55.563	4	2.790	2.392	+	0.0123		
1598C/1598	3	4	343.325	243.554	4	1935.825	927.346	-	0.0370	4	53.115	48.824	4	187.408	90.587	-	0.1365		
846C/846	3	5	220.200	132.737	5	744.620	281.395	-	0.1477	5	45.243	39.920	5	128.791	56.402	-	0.1648		
1650C/1650	3	6	1693.333	868.895	5	180.000	177.511	+	0.0083	6	106.997	66.800	5	17.528	17.521	+	0.0158		
Habitat Means			725.215	386.515		728.861	355.490	-			84.861	52.777		84.129	41.726	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0192xy		Power	---		Power-50%	---	P-value	0.0097			
Stouffer's		Power	0.000		Power-50%	0.062	P-value	0.9545		Power	0.007		Power-50%	0.040	P-value	0.8790			

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

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

z Only one site pair.

Table D-59, Page 8, December 21, 1994

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

Table D-69, Page 7, December 21, 1994

Table D-69, Page 8, December 21, 1994

Table D-69. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, June 1990. (Continued.)

Lacuna spp. - abundance (#/m ²)										Lacuna spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	1.667	1.667	4	0.000	0.000	-	0.3632	6	0.005	0.005	4	0.000	0.000	+	0.3632		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
Habitat Means			0.417	0.417		0.000	0.000	+			0.001	0.001		0.000	0.000	+			
Fisher's		Power	---		Power-50%	---	P-value	0.4765		Power	---		Power-50%	---	P-value	0.4765			
Stouffer's		Power	---		Power-50%	---	P-value	0.4982		Power	---		Power-50%	---	P-value	0.4982			
506C/506	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	2	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
506C/506	3	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	3	4	0.000	0.000	4	0.000	0.000	o	1.0000	4	0.000	0.000	4	0.000	0.000	o	1.0000		
846C/846	3	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
1650C/1650	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			

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

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

z Only one site pair.

Table D-69, Page 9, December 21, 1994

Littorina spp. - abundance (#/m ²)										Littorina spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	916.733	198.485	4	462.500	176.039	-	0.3247	6	22.862	6.500	4	55.130	18.309	-	0.8163		
1598C/1598	1	5	746.520	372.799	5	21.120	14.030	-	0.0011	5	20.640	10.850	5	0.713	0.579	+	0.0033		
846C/846	1	6	129.050	52.230	6	112.067	63.960	-	0.5533	6	2.660	1.309	6	5.552	2.353	-	0.7652		
1650C/1650	1	6	404.433	104.003	4	22.500	14.361	-	0.0170	6	11.897	3.827	4	1.900	1.741	+	0.0546		
Habitat Means			549.184	181.879		154.547	67.098	+			14.515	5.622		15.824	5.746	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0002		Power	---		Power-50%	---	P-value	0.0049	y		
Stouffer's		Power	---		Power-50%	---	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0009			
506C/506	2	6	982.867	425.536	4	296.950	133.337	+	0.0803	6	13.321	6.592	4	21.065	7.199	-	0.6556		
1598C/1598	2	5	1046.000	529.817	5	143.980	55.657	+	0.1268	5	16.258	7.187	5	4.721	1.968	-	0.2357		
846C/846	2	6	637.450	218.885	6	717.733	213.674	-	0.8990	6	8.653	1.907	6	16.334	3.522	-	0.1046		
1650C/1650	2	6	1416.400	467.817	5	120.000	96.488	+	0.0003	6	37.737	11.366	5	3.538	2.207	-	0.0615		
Habitat Means			1020.679	410.514		319.666	124.789	+			18.992	6.763		11.415	3.724	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0002		Power	0.000		Power-50%	0.000	P-value	0.1450			
Stouffer's		Power	---		Power-50%	---	P-value	0.0116		Power	0.000		Power-50%	0.000	P-value	0.1342			
506C/506	3	5	72.000	50.735	4	404.075	309.363	-	0.5148	5	0.292	0.146	4	12.809	6.972	-	0.2642		
1598C/1598	3	4	1046.325	424.354	4	915.475	142.735	+	0.8071	4	13.743	5.116	4	20.142	5.036	-	0.3668		
846C/846	3	5	1981.620	324.784	5	1109.260	332.784	+	0.0762	5	12.908	2.553	5	20.746	5.878	-	0.5328		
1650C/1650	3	6	2242.783	543.598	5	158.660	79.624	+	0.0001	6	33.851	7.970	5	4.155	1.695	-	0.0897		
Habitat Means			1335.682	335.868		646.867	216.124	+			15.199	3.946		14.463	4.895	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0004		Power	0.003		Power-50%	0.015	P-value	0.2528	xy		
Stouffer's		Power	---		Power-50%	---	P-value	0.0488		Power	0.000		Power-50%	0.019	P-value	0.2726			

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-69, Page 10, December 21, 1994

Table D-69. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. June 1990. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	554.850	126.678	4	457.500	172.210	+	0.5581	6	17.854	6.552	4	54.903	18.287	-	0.6936		
1598C/1598	1	5	188.660	86.434	5	9.120	6.897	+	0.0322	5	14.626	10.563	5	0.621	0.592	-	0.0438		
846C/846	1	6	65.683	28.409	6	55.950	35.421	-	0.7720	6	1.766	0.919	6	4.025	2.403	-	0.8927		
1650C/1650	1	6	344.433	85.821	4	5.000	5.000	-	0.0029	6	11.430	3.860	4	0.117	0.117	-	0.0093		
Habitat Means			288.407	81.836		131.893	54.882	-			11.419	5.474		14.917	5.350	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0011		Power	---		Power-50%	---	P-value	0.0089			
Stouffer's		Power	---		Power-50%	0.092	P-value	0.0026		Power	---		Power-50%	---	P-value	0.0068			
506C/506	2	6	538.850	299.528	4	231.600	107.560	-	0.3699	6	7.885	5.138	4	17.871	6.264	-	0.8821		
1598C/1598	2	5	354.680	155.924	5	91.320	35.415	-	0.2627	5	9.020	3.728	5	4.193	1.774	+	0.4183		
846C/846	2	6	217.633	70.115	6	179.283	55.305	+	0.7221	6	5.685	1.738	6	4.642	1.954	+	0.5650		
1650C/1650	2	6	770.850	263.925	5	88.000	67.779	+	0.0112	6	30.651	9.249	5	3.012	1.948	+	0.0405		
Habitat Means			470.503	197.373		147.551	66.515	+			13.310	4.963		7.430	2.985	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0109		Power	---		Power-50%	---	P-value	0.0670			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0392		Power	---		Power-50%	---	P-value	0.0796			
506C/506	3	5	0.000	0.000	4	318.675	227.782	-	0.0600	5	0.000	0.000	4	9.998	5.471	-	0.0622		
1598C/1598	3	4	70.000	25.166	4	405.000	142.741	-	0.0607	4	2.612	0.970	4	12.829	4.711	-	0.7195		
846C/846	3	5	247.540	75.050	5	146.560	94.776	+	0.5163	5	3.889	0.738	5	6.848	5.239	-	0.2566		
1650C/1650	3	6	556.117	138.184	5	98.660	40.393	+	0.0041	6	15.158	6.816	5	3.595	1.642	-	0.0929		
Habitat Means			218.414	59.600		242.224	126.423	+			5.415	2.131		8.318	4.266	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0552		Power	0.286		Power-50%	0.000	P-value	0.1056			
Stouffer's		Power	0.000		Power-50%	0.007	P-value	0.8102		Power	0.152		Power-50%	0.006	P-value	0.4020			

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

Table D-69. Page 11. December 21, 1994

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	361.883	174.881	4	5.000	5.000	-	0.0016	6	5.009	2.208	4	0.227	0.228	+	0.0045		
1598C/1598	1	5	557.860	371.473	5	12.000	12.000	-	0.0016	5	6.014	4.230	5	0.092	0.092	+	0.0025		
846C/846	1	6	63.367	34.347	6	56.117	54.141	-	0.3970	6	0.894	0.619	6	1.527	1.458	-	0.5598		
1650C/1650	1	6	60.000	44.085	4	17.500	14.361	-	0.5056	6	0.467	0.307	4	1.783	1.776	-	0.6082		
Habitat Means			260.778	156.197		22.654	21.376	+			3.096	1.841		0.907	0.889	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0000		Power	---		Power-50%	---	P-value	0.0007			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0004		Power	---		Power-50%	---	P-value	0.0055			
506C/506	2	6	444.017	153.324	4	65.350	34.495	+	0.0497	6	5.436	1.722	4	3.194	1.668	+	0.3530		
1598C/1598	2	5	691.320	376.042	5	52.660	27.455	+	0.0191	5	7.238	3.588	5	0.529	0.250	+	0.0625		
846C/846	2	6	419.817	154.124	6	538.450	189.110	-	0.9575	6	2.968	0.749	6	11.691	3.459	-	0.0055		
1650C/1650	2	6	645.550	225.005	5	32.000	29.563	+	0.0018	6	7.086	2.616	5	0.526	0.361	+	0.0794		
Habitat Means			550.176	227.124		172.115	70.156	+			5.682	2.169		3.985	1.435	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0316			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0017		Power	---		Power-50%	---	P-value	0.0812			
506C/506	3	5	72.000	50.735	4	85.400	82.101	-	0.9791	5	0.292	0.146	4	2.810	2.614	-	0.9169		
1598C/1598	3	4	976.325	405.283	4	510.475	96.478	+	0.3913	4	11.130	4.155	4	7.313	0.746	+	0.5281		
846C/846	3	5	1734.080	261.041	5	962.700	356.264	+	0.1178	5	9.019	2.025	5	13.898	5.325	-	0.7279		
1650C/1650	3	6	1686.667	606.601	5	60.000	52.631	+	0.0013	6	18.692	7.390	5	0.560	0.385	+	0.0237		
Habitat Means			1117.268	330.915		404.644	146.869	+			9.783	3.429		6.145	2.268	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0016		Power	---		Power-50%	---	P-value	0.0909			
Stouffer's		Power	---		Power-50%	0.017	P-value	0.0223		Power	0.001		Power-50%	0.020	P-value	0.1494			

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

Table D-69. Page 12. December 21, 1994

Table D-69. Invertebrate Abundance and Biomass, Prince William Sound, Coarse Textured, June 1990. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	1202.000	420.864	4	127.500	111.009	+	0.0187	6	219.387	103.335	4	34.438	30.277	+	0.1233		
1598C/1598	1	5	213.200	110.110	5	14.220	10.360	-	0.0260	5	164.815	162.305	5	17.749	17.736	+	0.0399		
846C/846	1	6	85.600	42.997	6	19.450	19.450	+	0.1642	6	3.297	2.558	6	1.090	1.090	+	0.2638		
1650C/1650	1	6	133.517	107.950	4	7.500	7.500	+	0.1556	6	4.030	2.335	4	0.605	0.605	+	0.1897		
Habitat Means			408.579	170.480		42.168	37.080	-			97.882	67.633		13.471	12.427	+			
Fisher's	Power	---			Power-50%	---	P-value	0.0004		Power	---		Power-50%	---	P-value	0.0046			
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0025		Power	---		Power-50%	---	P-value	0.0055			
506C/506	2	6	816.933	213.969	4	1363.425	789.039	-	0.6016	6	699.239	300.735	4	451.588	185.534	+	0.4069		
1598C/1598	2	5	671.320	228.170	5	54.000	37.363	-	0.0080	5	452.252	261.243	5	45.206	39.494	+	0.0293		
846C/846	2	6	1198.517	326.064	6	511.083	141.763	-	0.1450	6	169.487	91.733	6	123.823	30.939	+	0.5377		
1650C/1650	2	6	669.217	216.680	5	8.000	8.000	-	0.0002	6	40.237	10.334	5	0.024	0.024	+	0.0001		
Habitat Means			838.997	246.221		484.127	244.041	-			340.304	166.011		155.160	63.998	+			
Fisher's	Power	---			Power-50%	---	P-value	0.0000		Power	---		Power-50%	---	P-value	0.0000			
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0008			
506C/506	3	5	726.500	155.572	4	3574.050	1516.755	-	0.1278	5	77.920	34.722	4	498.869	480.537	-	0.7930		
1598C/1598	3	4	2636.500	1897.321	4	228.925	48.059	-	0.0787	4	117.934	45.665	4	73.049	32.512	+	0.7010		
846C/846	3	5	2507.600	977.653	5	207.300	55.556	-	0.0058	5	167.611	57.719	5	105.239	64.630	+	0.0981		
1650C/1650	3	6	3093.333	1513.422	5	32.000	24.779	-	0.0001	6	84.388	46.574	5	1.832	1.657	+	0.0002		
Habitat Means			2240.983	1135.992		1010.569	411.287	-			111.963	46.170		169.747	144.834	+			
Fisher's	Power	---			Power-50%	---	P-value	0.0000		Power	---		Power-50%	---	P-value	0.0006			
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0004		Power	---		Power-50%	---	P-value	0.0432			

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

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

z Only one site pair.

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	26.667	19.777	4	0.000	0.000	+	0.1790	6	0.035	0.026	4	0.000	0.000	-	0.1790		
1598C/1598	1	5	0.000	0.000	5	2.000	2.000	-	0.3739	5	0.000	0.000	5	0.001	0.001	-	0.3739		
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
Habitat Means			6.667	4.944		0.500	0.500	+			0.009	0.007		0.000	0.000	-			
Fisher's	Power	0.015			Power-50%	0.004	P-value	0.4321		Power	0.013		Power-50%	0.004	P-value	0.4321			
Stouffer's	Power	0.000			Power-50%	0.000	P-value	0.7939		Power	0.000		Power-50%	0.000	P-value	0.7939			
506C/506	2	6	5.000	5.000	4	5.000	2.887	o	0.5063	6	0.010	0.010	4	0.000	0.000	-	0.5170		
1598C/1598	2	5	32.000	32.000	5	0.000	0.000	+	0.3739	5	0.016	0.016	5	0.000	0.000	+	0.3739		
846C/846	2	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	-	0.3632		
1650C/1650	2	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			9.667	9.667		1.250	0.722	+			0.007	0.007		0.000	0.000	+			
Fisher's	Power	0.951			Power-50%	---	P-value	0.3651		Power	0.970		Power-50%	---	P-value	0.2099			
Stouffer's	Power	0.937			Power-50%	---	P-value	0.1413		Power	0.720		Power-50%	---	P-value	0.1398			
506C/506	3	5	1362.940	491.680	4	1185.000	983.307	+	0.1563	5	0.810	0.295	4	1.025	0.837	-	0.2330		
1598C/1598	3	4	177.500	89.757	4	22.150	22.150	+	0.0566	4	0.078	0.037	4	0.008	0.008	+	0.1046		
846C/846	3	5	1012.120	728.034	5	7.120	7.120	+	0.0619	5	0.870	0.586	5	0.014	0.014	+	0.0658		
1650C/1650	3	6	1467.217	1416.960	5	0.000	0.000	+	0.1043	6	1.680	1.656	5	0.000	0.000	+	0.1851		
Habitat Means			1004.944	681.608		303.568	253.144	+			0.860	0.644		0.262	0.215	+			
Fisher's	Power	---			Power-50%	---	P-value	0.0015		Power	---		Power-50%	---	P-value	0.0233			
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0036		Power	---		Power-50%	---	P-value	0.0098			

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

z Only one site pair.

Table p 69, Page 13, December 21, 1994																	
Table p 69, Page 14, December 21, 1994																	

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Table D-69. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, June 1990. (Continued.)

Pagurus spp. - abundance (#/m ²)										Pagurus spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	25.000	25.000	4	2.500	2.500	+	0.8417	6	1.158	1.158	4	0.003	0.003	+	0.6579		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
Habitat Means			6.250	6.250		0.625	0.625	+			0.290	0.290		0.001	0.001	+			
Fisher's			Power	---		Power-50%	---		P-value		Power	---		Power-50%	---		P-value		0.6045
Stouffer's			Power	---		Power-50%	---		P-value		Power	---		Power-50%	---		P-value		0.4991
506C/506	2	6	35.000	33.040	4	153.150	146.502	-	0.3523	6	1.993	1.870	4	9.926	9.520	-	0.2744		
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	2	6	8.533	8.533	6	0.000	0.000	-	0.3632	6	0.188	0.188	6	0.000	0.000	-	0.3632		
1650C/1650	2	6	10.550	10.550	5	2.000	2.000	-	0.8132	6	0.199	0.199	5	0.008	0.008	-	0.7721		
Habitat Means			13.521	13.031		38.788	37.126	-			0.595	0.564		2.484	2.382	+			
Fisher's			Power	0.184		Power-50%	0.033		P-value		Power	0.268		Power-50%	0.034		P-value		0.5370 y
Stouffer's			Power	0.407		Power-50%	0.000		P-value		Power	0.277		Power-50%	0.000		P-value		0.3762
506C/506	3	5	8.000	8.000	4	30.000	21.213	-	0.3799	5	1.536	1.536	4	4.115	2.568	-	0.4060		
1598C/1598	3	4	100.000	93.363	4	8.225	8.225	+	0.2768	4	5.019	3.948	4	0.224	0.224	+	0.1538		
846C/846	3	5	0.000	0.000	5	89.360	50.219	-	0.0750	5	0.000	0.000	5	2.248	1.683	-	0.0741		
1650C/1650	3	6	61.117	45.553	5	2.000	2.000	+	0.3650	6	3.174	2.582	5	0.000	0.000	+	0.1870		
Habitat Means			42.279	36.729		32.396	20.414	-			2.432	2.017		1.647	1.119	-			
Fisher's			Power	0.034		Power-50%	0.031		P-value		Power	0.019		Power-50%	0.072		P-value		0.2556 y
Stouffer's			Power	0.016		Power-50%	0.015		P-value		Power	0.003		Power-50%	0.027		P-value		0.6749

Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's			Power	---		Power-50%	---		P-value		Power	---		Power-50%	---		P-value		0.6980
Stouffer's			Power	---		Power-50%	---		P-value		Power	---		Power-50%	---		P-value		0.5000
506C/506	2	6	0.000	0.000	4	17.500	14.361	-	0.2030	6	0.000	0.000	4	45.600	43.318	-	0.1892		
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	2	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		4.375	3.590	-			0.000	0.000		11.400	10.830	-			
Fisher's			Power	0.001		Power-50%	---		P-value		Power	0.000		Power-50%	---		P-value		0.3529
Stouffer's			Power	0.000		Power-50%	---		P-value		Power	0.000		Power-50%	---		P-value		0.4974
506C/506	3	5	0.000	0.000	4	5.000	5.000	-	0.3910	5	0.000	0.000	4	11.923	11.923	-	0.3910		
1598C/1598	3	4	7.500	7.500	4	0.000	0.000	+	0.3910	4	12.765	12.765	4	0.000	0.000	+	0.3910		
846C/846	3	5	0.000	0.000	5	6.000	4.000	-	0.1818	5	0.000	0.000	5	6.810	4.318	-	0.1779		
1650C/1650	3	6	15.000	13.102	5	0.000	0.000	+	0.1970	6	1.723	1.482	5	0.000	0.000	+	0.1785		
Habitat Means			5.625	5.151		2.750	2.250	-			3.622	3.562		4.683	4.060	-			
Fisher's			Power	0.036		Power-50%	0.020		P-value		Power	0.048		Power-50%	0.020		P-value		0.3660
Stouffer's			Power	0.000		Power-50%	0.103		P-value		Power	0.000		Power-50%	0.108		P-value		0.7728

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-69. Page 15. December 21, 1994

Table D-69. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, June 1990. (Continued.)

Nucella lima - abundance (#/m²)										Nucella lima - biomass (g/m²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---		P-value	0.6980	Power	---		Power-50%	---		P-value	0.6980
Stouffer's	Power		---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
506C/506	2	6	0.000	0.000	4	17.500	14.361	-	0.2030	6	0.000	0.000	4	45.600	43.318	-	0.1892
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	2	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		4.375	3.590	-			0.000	0.000		11.400	10.830	-	
Fisher's	Power		0.001		Power-50%	---		P-value	0.3652	Power	0.000		Power-50%	---		P-value	0.3529
Stouffer's	Power		0.000		Power-50%	---		P-value	0.4974	Power	0.000		Power-50%	---		P-value	0.4974
506C/506	3	5	0.000	0.000	4	5.000	3.000	-	0.3910	5	0.000	0.000	4	11.923	11.923	-	0.3910
1598C/1598	3	4	7.500	7.500	4	0.000	0.000	-	0.3910	4	12.765	12.765	4	0.000	0.000	-	0.3910
846C/846	3	5	0.000	0.000	5	6.000	4.000	-	0.1818	5	0.000	0.000	5	6.810	4.318	-	0.1779
1650C/1650	3	6	1.667	1.667	5	0.000	0.000	-	0.3632	6	1.510	1.510	5	0.000	0.000	-	0.3632
Habitat Means			2.292	2.292		2.750	2.250	-			3.569	3.569		4.683	4.060	-	
Fisher's	Power		0.210		Power-50%	---		P-value	0.3511	Power	0.392		Power-50%	---		P-value	0.3474
Stouffer's	Power		0.000		Power-50%	---		P-value	0.7407	Power	0.000		Power-50%	---		P-value	0.7396

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-69, Page 17. December 21, 1994

Nucella lamellosa - abundance (#/m^2)										Nucella lamellosa - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---		P-value	0.6980	Power	---		Power-50%	---		P-value	0.6980		
Stouffer's	Power		---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000		
506C/506	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	2	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---		P-value	0.6980	Power	---		Power-50%	---		P-value	0.6980		
Stouffer's	Power		---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000		
506C/506	3	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	3	4	0.000	0.000	4	0.000	0.000	o	1.0000	4	0.000	0.000	4	0.000	0.000	o	1.0000		
846C/846	3	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
1650C/1650	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---		P-value	0.6980	Power	---		Power-50%	---		P-value	0.6980		
Stouffer's	Power		---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000		

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

Table D-69, Page 18. December 21, 1994

Table D-69. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. June 1990. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	26.667	26.667	4	10.000	10.000	+	0.9511	6	0.152	0.152	4	0.020	0.020	+	0.9827		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	40.633	25.997	-	0.1749	6	0.000	0.000	6	1.003	0.845	-	0.1784		
1650C/1650	1	6	21.667	16.415	4	300.000	300.000	-	0.8134	6	0.310	0.270	4	0.338	0.338	-	0.8878		
Habitat Means			12.084	10.771		87.658	83.999	-			0.116	0.106		0.340	0.301	-			
Fisher's		Power	0.725		Power-50%	0.057	P-value	0.3136		Power	0.072		Power-50%	0.011	P-value	0.3260			
Stouffer's		Power	0.248		Power-50%	0.000	P-value	0.3331		Power	0.294		Power-50%	0.000	P-value	0.3426			
506C/506	2	6	44.017	34.983	4	789.725	739.701	-	0.4174	6	0.040	0.040	4	0.459	0.458	-	0.6033		
1598C/1598	2	5	259.340	160.005	5	0.000	0.000	+	0.1779	5	0.297	0.238	5	0.000	0.000	-	0.1820		
846C/846	2	6	0.000	0.000	6	684.767	484.430	-	0.0287	6	0.000	0.000	6	2.155	1.216	-	0.0291		
1650C/1650	2	6	1053.667	768.626	5	116.000	116.000	+	0.4225	6	4.639	3.832	5	0.146	0.146	-	0.3526		
Habitat Means			339.256	240.904		397.623	335.033	-			1.244	1.028		0.690	0.455	-			
Fisher's		Power	0.066		Power-50%	0.029	P-value	0.1390		Power	0.009		Power-50%	0.010	P-value	0.1782			
Stouffer's		Power	0.034		Power-50%	0.070	P-value	0.7995		Power	0.000		Power-50%	0.028	P-value	0.8057			
506C/506	3	5	97.540	32.152	4	397.500	154.131	-	0.6488	5	0.215	0.180	4	0.615	0.258	-	0.4215		
1598C/1598	3	4	1986.175	1401.168	4	76.550	44.743	+	0.1389	4	4.111	3.832	4	0.183	0.108	-	0.3056		
846C/846	3	5	6.000	6.000	5	1552.860	1514.777	-	0.2569	5	0.034	0.034	5	0.318	0.259	-	0.4765		
1650C/1650	3	6	334.450	252.262	5	1744.000	1132.593	-	0.4188	6	0.463	0.245	5	6.072	5.484	-	0.5095		
Habitat Means			606.041	422.896		942.728	711.561	-			1.206	1.073		1.797	1.527	-			
Fisher's		Power	0.078		Power-50%	0.052	P-value	0.2922		Power	0.017		Power-50%	0.010	P-value	0.3381			
Stouffer's		Power	0.171		Power-50%	0.000	P-value	0.8066		Power	0.058		Power-50%	0.000	P-value	0.7432			

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

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

z Only one site pair.

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	0.000	0.000	4	2.500	2.500	-	0.3910	6	0.000	0.000	4	0.130	0.130	-	0.3910		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	36.767	26.559	-	0.1776	6	0.000	0.000	6	0.179	0.178	-	0.2328		
1650C/1650	1	6	6.667	6.667	4	7.500	7.500	-	0.8218	6	0.022	0.022	4	0.025	0.025	-	0.8089		
Habitat Means			1.667	1.667		11.692	9.140	-			0.006	0.006		0.084	0.083	-			
Fisher's		Power	0.458		Power-50%	---	P-value	0.1867		Power	0.041		Power-50%	---	P-value	0.2155			
Stouffer's		Power	0.353		Power-50%	---	P-value	0.3333		Power	0.028		Power-50%	---	P-value	0.3475			
506C/506	2	6	1.667	1.667	4	132.750	132.750	-	0.4189	6	0.013	0.013	4	3.115	3.115	-	0.4564		
1598C/1598	2	5	208.260	132.454	5	8.000	8.000	+	0.0825	5	1.673	1.402	5	0.005	0.005	+	0.2407		
846C/846	2	6	49.250	38.396	6	337.500	162.089	-	0.0214	6	0.331	0.272	6	1.872	0.532	-	0.0556		
1650C/1650	2	6	44.333	42.365	5	0.000	0.000	+	0.3301	6	0.957	0.929	5	0.000	0.000	+	0.1938		
Habitat Means			75.878	53.721		119.563	75.710	-			0.744	0.654		1.248	0.913	-			
Fisher's		Power	0.059		Power-50%	0.233	P-value	0.1246	x	Power	0.016		Power-50%	0.065	P-value	0.2266			
Stouffer's		Power	0.006		Power-50%	0.182	P-value	0.8873		Power	0.000		Power-50%	0.069	P-value	0.8091			
506C/506	3	5	6.000	6.000	4	15.000	8.660	-	0.4308	5	0.026	0.026	4	0.000	0.000	+	0.4743		
1598C/1598	3	4	444.325	286.073	4	45.475	19.981	+	0.4533	4	5.892	4.206	4	0.586	0.585	+	0.2054		
846C/846	3	5	12.200	12.200	5	155.700	61.401	-	0.0050	5	0.140	0.140	5	2.023	0.586	-	0.0026		
1650C/1650	3	6	144.450	85.610	5	0.000	0.000	+	0.0129	6	1.445	0.777	5	0.000	0.000	+	0.0394		
Habitat Means			151.744	97.471		54.044	22.511	-			1.876	1.287		0.652	0.293	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0488	xy	Power	---		Power-50%	---	P-value	0.0538	x		
Stouffer's		Power	0.000		Power-50%	0.093	P-value	0.6992		Power	0.563		Power-50%	0.056	P-value	0.1976			

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

Table D 69, Page 19, December 21, 1994

Table D 69, Page 20, December 21, 1994

Table D-69. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. June 1990. (Continued.)

Errant polychaetes - abundance (#/m^2)										Errant polychaetes - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	73.333	73.333	4	0.000	0.000	+	0.3632	6	0.020	0.020	4	0.000	0.000	-	0.3632
1598C/1598	1	5	0.000	0.000	5	10.660	10.660	-	0.3739	5	0.000	0.000	5	0.001	0.001	-	0.3739
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
Habitat Means			18.333	18.333		2.665	2.665	+			0.005	0.005		0.000	0.000	+	
Fisher's	Power		---		Power-50%	---		P-value	0.5805	Power	---		Power-50%	---		P-value	0.5805
Stouffer's	Power		---		Power-50%	---		P-value	0.7945	Power	---		Power-50%	---		P-value	0.7945
506C/506	2	6	233.250	167.117	4	2.500	2.500	+	0.1297	6	0.129	0.083	4	0.010	0.010	+	0.4807
1598C/1598	2	5	109.340	92.988	5	0.000	0.000	+	0.0895	5	1.081	1.067	5	0.000	0.000	+	0.1960
846C/846	2	6	8.533	8.533	6	5.333	5.333	+	0.9325	6	0.000	0.000	6	0.992	0.992	-	0.3845
1650C/1650	2	6	14.000	10.520	5	0.000	0.000	+	0.1812	6	0.018	0.016	5	0.000	0.000	+	0.1997
Habitat Means			91.281	69.790		1.958	1.958	+			0.307	0.292		0.251	0.251	+	
Fisher's	Power		---		Power-50%	---		P-value	0.0211	Power	0.001		Power-50%	0.091		P-value	0.1290
Stouffer's	Power		---		Power-50%	0.175		P-value	0.0265	Power	0.001		Power-50%	0.049		P-value	0.1007
506C/506	3	5	508.400	263.413	4	164.425	126.253	-	0.1040	5	0.217	0.055	4	0.091	0.090	-	0.0280
1598C/1598	3	4	106.325	47.794	4	126.775	126.775	-	0.9253	4	2.013	1.818	4	3.860	3.859	-	0.6342
846C/846	3	5	173.280	148.171	5	297.160	160.593	-	0.5267	5	0.051	0.051	5	6.646	5.573	-	0.0346
1650C/1650	3	6	66.667	41.607	5	0.000	0.000	-	0.7214	6	0.097	0.089	5	0.000	0.000	-	0.1715
Habitat Means			213.668	125.246		147.090	103.405	-			0.595	0.503		2.649	2.381	-	
Fisher's	Power		0.002		Power-50%	0.008		P-value	0.2789	Power	---		Power-50%	---		P-value	0.0755xy
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.5663	Power	0.000		Power-50%	0.000		P-value	0.7525

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

Table D-69. Page 21. December 21, 1994

Sedentary polychaetes - abundance (#/m^2)										Sedentary polychaetes - biomass (g/m^2)							
Site Pair	MVP	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	0.000	0.000	4	0.000	0.000	+	0.3632	6	0.000	0.000	4	0.000	0.000	-	0.3632
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	1	6	0.000	0.000	6	8.550	8.550	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632
1650C/1650	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
Habitat Means			1.667	1.667		2.138	2.138	+			0.003	0.003		0.000	0.000	+	
Fisher's	Power		---		Power-50%	---		P-value	0.5820 y	Power	---		Power-50%	---		P-value	0.5820
Stouffer's	Power		---		Power-50%	---		P-value	0.5973	Power	---		Power-50%	---		P-value	0.5973
506C/506	2	6	655.133	244.384	4	2.500	2.500	+	0.0014	6	0.827	0.382	4	0.000	0.000	+	0.0203
1598C/1598	2	5	32.000	32.000	5	0.000	0.000	+	0.3739	5	0.011	0.011	5	0.000	0.000	+	0.3739
846C/846	2	6	42.583	33.468	6	1.667	1.667	+	0.3098	6	0.051	0.051	6	0.000	0.000	+	0.3587
1650C/1650	2	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			182.429	77.463		1.042	1.042	+			0.222	0.111		0.000	0.000	+	
Fisher's	Power		---		Power-50%	---		P-value	0.0034	Power	---		Power-50%	---		P-value	0.0266
Stouffer's	Power		0.007		Power-50%	0.111		P-value	0.1307	Power	0.020		Power-50%	0.024		P-value	0.1375
506C/506	3	5	840.940	510.982	4	10.000	5.774	+	0.0016	5	4.092	2.113	4	0.020	0.020	+	0.0365
1598C/1598	3	4	25.000	18.930	4	22.850	22.850	+	0.6619	4	0.050	0.041	4	0.029	0.029	+	0.6035
846C/846	3	5	814.080	790.029	5	11.760	11.760	+	0.2061	5	0.515	0.471	5	0.000	0.000	+	0.1824
1650C/1650	3	6	111.667	77.907	5	0.000	0.000	+	0.0868	6	0.036	0.035	5	0.000	0.000	+	0.2473
Habitat Means			447.922	349.462		11.153	10.096	+			1.173	0.665		0.012	0.012	+	
Fisher's	Power		---		Power-50%	---		P-value	0.0006	Power	---		Power-50%	---		P-value	0.0130
Stouffer's	Power		0.003		Power-50%	0.159		P-value	0.1177	Power	0.113		Power-50%	0.063		P-value	0.1268

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

Table D-69. Page 22. December 21, 1994

Table D-69. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. June 1990. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	-	6	2893.050	1073.883	4	1280.000	1273.336	+	0.0081	6	0.985	0.613	4	0.328	0.295	+	0.3670		
1598C/1598	-	5	520.660	456.214	5	313.780	124.357	+	0.8585	5	0.854	0.827	5	0.123	0.052	+	0.8111		
846C/846	-	6	519.517	110.260	6	2506.867	699.597	-	0.2682	6	0.098	0.029	6	0.457	0.160	-	0.4606		
1650C/1650	-	6	789.817	409.132	4	526.675	291.632	+	0.7743	6	0.336	0.097	4	0.464	0.282	-	0.6586		
Habitat Means			1180.761	512.372		1156.831	597.231				0.568	0.392		0.343	0.197	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0612	Power	0.000		Power-50%	0.000	P-value	0.5894			
Stouffer's	Power	0.000			Power-50%	0.014		P-value	0.5228	Power	0.001		Power-50%	0.004	P-value	0.5335			
506C/506	2	6	1507.633	1144.754	4	3937.225	3470.016	-	0.8478	6	0.608	0.468	4	2.444	2.294	-	0.6075		
1598C/1598	2	5	2464.280	1865.316	5	587.560	234.409	+	0.6707	5	1.495	1.295	5	0.090	0.031	-	0.4437		
846C/846	2	6	450.550	109.268	6	3236.634	293.060	-	0.1904	6	0.115	0.043	6	0.809	0.120	-	0.0598		
1650C/1650	2	6	3428.900	1619.877	5	176.000	119.063	-	0.1042	6	1.719	0.919	5	0.322	0.288	+	0.1267		
Habitat Means			1962.841	1184.804		1984.355	1029.137	-			0.984	0.681		0.916	0.683	-			
Fisher's	Power	0.001			Power-50%	0.005		P-value	0.3099 y	Power	0.003		Power-50%	0.000	P-value	0.2625 y			
Stouffer's	Power	0.012			Power-50%	0.005		P-value	0.3347	Power	0.001		Power-50%	0.003	P-value	0.7125			
506C/506	3	5	2953.940	1628.323	4	856.175	334.382	+	0.1099	5	0.276	0.164	4	0.421	0.246	-	0.8177		
1598C/1598	3	4	141.825	79.839	4	1660.000	472.486	-	0.2669	4	0.075	0.075	4	0.338	0.140	-	0.0058		
846C/846	3	5	78.280	28.755	5	1696.420	607.643	-	0.1877	5	0.000	0.000	5	0.368	0.127	-	0.0002		
1650C/1650	3	6	2982.233	1064.392	5	1384.660	691.246	+	0.1747	6	1.353	0.530	5	0.775	0.322	-	0.9656		
Habitat Means			1539.070	700.327		1399.314	526.439	+			0.426	0.192		0.476	0.209	-			
Fisher's	Power	0.011			Power-50%	0.012		P-value	0.1927	Power	---		Power-50%	---	P-value	0.0001			
Stouffer's	Power	0.014			Power-50%	0.003		P-value	0.6552	Power	---		Power-50%	---	P-value	0.0002			

y At least one value greater than expected in direction of difference between habitat means is different than direction of overall tests.

z Only one site pair.

Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	6510.767	1372.366	4	2237.500	1725.999	+	0.0186	6	291.524	116.072	4	102.133	40.342	+	0.3419		
1598C/1598	1	5	5908.780	3880.896	5	550.020	140.892	+	0.0446	5	482.723	396.815	5	29.848	16.146	+	0.0871		
846C/846	1	6	1037.483	187.383	6	3679.650	1143.475	-	0.1959	6	24.801	6.999	6	86.701	61.627	-	0.6323		
1650C/1650	1	6	1731.283	894.372	4	936.675	343.280	+	0.8916	6	40.606	25.692	4	3.535	1.495	-	0.6651		
Habitat Means			3797.078	1583.754		1850.961	838.412	+			209.914	136.395		55.559	29.903	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0161	Power	0.000		Power-50%	0.000	P-value	0.1203			
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0598	Power	---		Power-50%	---	P-value	0.0583			
506C/506	2	6	5946.017	1850.930	4	8327.625	5286.300	-	0.4553	6	974.528	346.271	4	627.487	268.396	-	0.2542		
1598C/1598	2	5	7024.300	514.682	5	2206.420	376.199	+	0.1280	5	729.794	322.258	5	123.166	43.152	-	0.0461		
846C/846	2	6	3051.750	724.960	6	8035.517	1310.987	-	0.0860	6	250.161	116.168	6	375.999	107.239	-	0.6413		
1650C/1650	2	6	9525.533	2986.496	5	1608.000	836.824	+	0.0113	6	216.228	65.219	5	83.994	61.689	+	0.6407		
Habitat Means			6386.900	1769.267		5044.391	1952.578	+			542.678	212.479		302.662	120.119	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0363x	Power	---		Power-50%	---	P-value	0.0649			
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0602	Power	---		Power-50%	---	P-value	0.0325			
506C/506	3	5	9371.240	2469.948	4	10389.325	4310.951	-	0.8043	5	466.135	105.024	4	541.383	497.809	-	0.0959		
1598C/1598	3	4	9960.625	3403.264	4	6764.175	1362.444	-	0.4622	4	264.675	65.226	4	341.889	110.545	-	0.8368		
846C/846	3	5	8712.819	2434.633	5	6847.760	2244.942	-	0.6306	5	298.857	79.461	5	475.865	119.944	-	0.4259		
1650C/1650	3	6	13939.466	3446.562	5	3867.320	1076.995	+	0.0102	6	283.287	68.196	5	32.358	18.890	+	0.0002		
Habitat Means			10496.038	2938.602		6967.145	2248.833	+			328.239	79.477		347.874	186.797	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0320	Power	0.000		Power-50%	0.000	P-value	0.2068x			
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0752	Power	0.000		Power-50%	0.000	P-value	0.6855			

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

Table D-69. Page 24. December 21, 1994

Table D-70. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m^2)										Lottidae - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	88.333	35.158	4	10.000	7.071	+	0.0229	6	6.780	3.314	4	1.148	0.804	+	0.1319
1598C/1598	1	5	40.000	26.077	5	0.000	0.000	+	0.0800	5	2.650	2.085	5	0.000	0.000	+	0.0761
846C/846	1	6	0.000	0.000	6	28.333	22.864	-	0.1833	6	0.000	0.000	6	2.190	1.665	-	0.1760
1650C/1650	1	5	4.000	4.000	6	0.000	0.000	+	0.3739	5	0.490	0.490	6	0.000	0.000	+	0.3739
Habitat Means			33.083	16.309		9.583	7.484				2.480	1.472		0.835	0.617		
Fisher's	Power		---		Power-50%	---		P-value	0.0153	Power	---		Power-50%	---		P-value	0.0499
Stouffer's	Power		---		Power-50%	0.125		P-value	0.0683	Power	---		Power-50%	---		P-value	0.0668
506C/506	2	6	61.667	23.723	4	40.000	21.602	+	0.4866	6	6.208	2.172	4	4.898	2.719	+	0.4403
1598C/1598	2	5	14.000	6.000	5	34.000	31.559	-	0.7283	5	0.866	0.354	5	6.810	6.578	-	0.7106
846C/846	2	6	5.000	3.416	6	36.667	23.333	-	0.5387	6	0.160	0.141	6	3.010	1.954	-	0.6143
1650C/1650	2	5	62.000	28.705	6	6.667	4.944	+	0.0570	5	6.066	3.250	6	0.960	0.709	-	0.0850
Habitat Means			35.667	15.461		29.334	20.360	-			3.325	1.479		3.920	2.990	-	
Fisher's	Power		0.000		Power-50%	0.165		P-value	0.1762	Power	0.000		Power-50%	0.114		P-value	0.2042 v
Stouffer's	Power		0.000		Power-50%	0.303		P-value	0.5107	Power	0.000		Power-50%	0.223		P-value	0.5246
506C/506	3	5	30.000	17.889	4	30.000	26.771	o	0.5077	5	1.834	0.810	4	3.375	3.263	-	0.4265
1598C/1598	3	5	30.000	20.000	5	78.000	40.050	-	0.1704	5	3.780	2.985	5	7.516	3.947	-	0.1931
846C/846	3	5	10.000	10.000	6	6.667	3.333	+	0.6502	5	0.514	0.514	6	0.513	0.247	+	0.4468
1650C/1650	3	6	20.000	18.074	6	11.667	4.773	+	0.5262	6	3.808	3.641	6	0.470	0.192	+	0.5274
Habitat Means			22.500	16.491		31.584	18.732	+			2.484	1.988		2.969	1.912	-	
Fisher's	Power		0.450		Power-50%	0.319		P-value	0.6829 v	Power	0.001		Power-50%	0.212		P-value	0.3522
Stouffer's	Power		0.388		Power-50%	0.289		P-value	0.8413	Power	0.000		Power-50%	0.213		P-value	0.1973

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

Table D-70, Page 1. December 21, 1994

Lottia pelta - abundance (#/m^2)										Lottia Pelta - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	3.333	3.333	4	0.000	0.000	+	0.3632	6	0.362	0.362	4	0.000	0.000	+	0.3632		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.833	0.833		0.000	0.000	-			0.091	0.091		0.000	0.000	+			
Fisher's	Power		---		Power-50%	---		P-value	0.4765	Power	---		Power-50%	---		P-value	0.4765		
Stouffer's	Power		---		Power-50%	---		P-value	0.4982	Power	---		Power-50%	---		P-value	0.4982		
506C/506	2	6	11.667	7.923	4	10.000	4.082	+	0.5843	6	2.523	1.440	4	2.572	1.318	-	0.5697		
1598C/1598	2	5	4.000	2.449	5	0.000	0.000	+	0.2922	5	0.262	0.161	5	0.000	0.000	-	0.1778		
846C/846	2	6	3.333	3.333	6	10.000	10.000	-	0.8294	6	0.143	0.143	6	1.457	1.457	-	0.8418		
1650C/1650	2	5	22.000	19.596	6	1.667	1.667	+	0.2507	5	3.354	2.993	6	0.243	0.243	-	0.3747		
Habitat Means			10.250	8.325		5.417	3.937	+			1.571	1.184		1.068	0.754	-			
Fisher's	Power		0.194		Power-50%	0.435		P-value	0.1733	Power	0.139		Power-50%	0.450		P-value	0.2683		
Stouffer's	Power		0.139		Power-50%	0.305		P-value	0.1147	Power	---		Power-50%	---		P-value	0.0791		
506C/506	3	5	8.000	3.742	4	25.000	25.000	-	0.7507	5	1.578	0.858	4	3.190	3.190	-	0.4721		
1598C/1598	3	5	26.000	17.776	5	42.000	22.000	-	0.6005	5	3.604	2.910	5	4.090	2.291	-	0.6225		
846C/846	3	5	6.000	6.000	6	1.667	1.667	+	0.7148	5	0.270	0.270	6	0.207	0.207	-	0.8935		
1650C/1650	3	6	11.667	11.667	6	0.000	0.000	+	0.3632	6	1.780	1.780	6	0.000	0.000	+	0.3632		
Habitat Means			12.917	9.796		17.167	12.167	+			1.808	1.455		1.872	1.422	+			
Fisher's	Power		0.698		Power-50%	0.809		P-value	0.5232 y	Power	0.211		Power-50%	0.532		P-value	0.6128 y		
Stouffer's	Power		0.277		Power-50%	0.620		P-value	0.5663	Power	0.422		Power-50%	0.377		P-value	0.5807		

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

Table D-70, Page 2. December 21, 1994

Table D-70. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, July 1990. (Continued.)

Site Pair	MVD	Tectura persona - abundance (#/m ²)								Tectura persona - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	63.333	30.074	4	2.500	2.500	-	0.0498	6	5.297	2.507	4	0.295	0.295	-	0.0532
1598C/1598	1	5	30.000	21.448	5	0.000	0.000	-	0.1818	5	2.170	1.761	5	0.000	0.000	-	0.1806
846C/846	1	6	0.000	0.000	6	28.333	22.864	-	0.1833	6	0.000	0.000	6	2.190	1.665	-	0.1760
1650C/1650	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			23.333	12.881		7.708	6.341	+			1.867	1.067		0.621	0.490		
Fisher's		Power	---		Power-50%	---		P-value	0.0882	Power	---		Power-50%	---		P-value	0.0918
Stouffer's		Power	0.000		Power-50%	0.075		P-value	0.1882	Power	0.000		Power-50%	0.072		P-value	0.1890
506C/506	2	6	50.000	25.560	4	17.500	11.087	+	0.4496	6	3.685	2.307	4	1.650	1.211	-	0.6631
1598C/1598	2	5	6.000	4.000	5	32.000	29.563	-	0.7133	5	0.316	0.194	5	6.652	6.420	-	0.7828
846C/846	2	6	0.000	0.000	6	23.333	19.607	-	0.1877	6	0.000	0.000	6	1.402	1.199	-	0.1785
1650C/1650	2	5	38.000	26.533	6	1.667	1.667	+	0.0843	5	2.638	1.851	6	0.258	0.258	-	0.1461
Habitat Means			23.500	14.023		18.625	15.481	-			1.660	1.088		2.491	2.272	-	
Fisher's		Power	0.002		Power-50%	0.092		P-value	0.2382	Power	0.000		Power-50%	0.124		P-value	0.3752 y
Stouffer's		Power	0.001		Power-50%	0.193		P-value	0.6111	Power	0.000		Power-50%	0.183		P-value	0.6073
506C/506	3	5	0.000	0.000	4	2.500	2.500	-	0.3910	5	0.000	0.000	4	0.100	0.100	-	0.3910
1598C/1598	3	5	0.000	0.000	5	30.000	18.974	-	0.0855	5	0.000	0.000	5	3.098	2.036	-	0.0769
846C/846	3	5	0.000	0.000	6	1.667	1.667	-	0.3632	5	0.000	0.000	6	0.115	0.115	-	0.3632
1650C/1650	3	6	0.000	0.000	6	5.000	5.000	-	0.3632	6	0.000	0.000	6	0.103	0.103	-	0.3632
Habitat Means			0.000	0.000		9.792	7.035	-			0.000	0.000		0.854	0.589	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0371	Power	---		Power-50%	---		P-value	0.0345
Stouffer's		Power	---		Power-50%	---		P-value	0.0190	Power	---		Power-50%	---		P-value	0.0169

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

Table D-70, Page 3, December 21, 1994

Site Pair	MVD	Tectura scutum - abundance (#/m ²)								Tectura scutum - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---		P-value	0.6980	Power	---		Power-50%	---		P-value	0.6980
Stouffer's		Power	---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
506C/506	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
1598C/1598	2	5	4.000	4.000	5	0.000	0.000	-	0.3739	5	0.288	0.288	5	0.000	0.000	+	0.3739
846C/846	2	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.152	0.152	-	0.3632
1650C/1650	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			1.000	1.000		0.833	0.833	-			0.072	0.072		0.038	0.038	-	
Fisher's		Power	---		Power-50%	---		P-value	0.5805 y	Power	---		Power-50%	---		P-value	0.5805 y
Stouffer's		Power	---		Power-50%	---		P-value	0.7177	Power	---		Power-50%	---		P-value	0.7177
506C/506	3	5	4.000	4.000	4	2.500	2.500	+	0.9916	5	0.122	0.122	4	0.085	0.085	+	0.9306
1598C/1598	3	5	2.000	2.000	5	2.000	2.000	o	1.0000	5	0.080	0.080	5	0.162	0.162	-	0.9395
846C/846	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	3	6	8.333	6.540	6	6.667	3.333	+	0.7532	6	2.028	1.864	6	0.367	0.203	-	0.8220
Habitat Means			3.583	3.135		2.792	1.958	+			0.558	0.517		0.154	0.113	-	
Fisher's		Power	0.143		Power-50%	0.230		P-value	0.6328	Power	0.046		Power-50%	0.068		P-value	0.6513
Stouffer's		Power	0.169		Power-50%	0.257		P-value	0.4696	Power	0.033		Power-50%	0.095		P-value	0.5062

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

Table D-70, Page 4, December 21, 1994

Table D-70. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Balanomorphs - abundance (#/m ²)										Balanomorphs - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	266.667	94.151	4	977.500	537.578	-	0.9079	6	11.873	5.430	4	76.428	49.539	-	0.8216		
1598C/1598	1	5	2056.000	1041.041	5	112.000	112.000	+	0.0730	5	155.702	83.702	5	5.574	5.574	-	0.0833		
846C/846	1	6	658.333	455.254	6	515.000	187.523	+	0.9050	6	19.532	12.914	6	27.335	10.519	-	0.8524		
1650C/1650	1	5	458.660	279.445	6	0.000	0.000	+	0.1069	5	13.307	9.123	6	0.000	0.000	-	0.1246		
Habitat Means			859.915	467.473		401.125	209.275	+			50.104	27.792		27.334	16.408	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0540	Power	---		Power-50%	---		P-value	0.0798		
Stouffer's	Power	---			Power-50%	0.030		P-value	0.0183	Power	---		Power-50%	---		P-value	0.0267		
506C/506	2	6	1250.000	440.363	4	474.175	268.409	+	0.2686	6	261.663	154.328	4	35.821	26.229	+	0.0558		
1598C/1598	2	5	1604.000	421.670	5	434.520	115.098	+	0.0606	5	238.844	100.721	5	13.305	4.042	+	0.0515		
846C/846	2	6	3017.783	2394.360	6	1437.783	445.016	+	0.8720	6	58.918	16.710	6	135.229	50.137	-	0.4598		
1650C/1650	2	5	3257.320	1146.689	6	85.000	49.447	+	0.0001	5	176.545	64.878	6	7.310	4.406	+	0.1230		
Habitat Means			2282.276	1100.771		607.870	219.493	-			183.993	84.159		47.916	21.204	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0001	Power	---		Power-50%	---		P-value	0.0084		
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0031	Power	---		Power-50%	---		P-value	0.0232		
506C/506	3	5	1460.000	392.441	4	74.150	38.003	-	0.0089	5	277.002	62.487	4	2.777	2.072	-	0.0419		
1598C/1598	3	5	2306.000	1485.724	5	15860.680	5742.074	-	0.0667	5	428.178	300.687	5	1158.648	394.684	-	0.1476		
846C/846	3	5	5819.300	1556.335	6	1474.450	770.210	+	0.0774	5	95.894	41.007	6	43.593	20.533	-	0.1547		
1650C/1650	3	6	1345.000	717.471	6	1321.667	472.493	+	0.9719	6	82.763	60.356	6	47.962	20.409	-	0.9032		
Habitat Means			2732.575	1037.993		4682.737	1755.695	+			220.959	116.134		313.245	109.425	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0157 _{xy}	Power	---		Power-50%	---		P-value	0.0676 _y		
Stouffer's	Power	0.000			Power-50%	0.012		P-value	0.8843	Power	0.000		Power-50%	0.004		P-value	0.8198		

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

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

z Only one site pair.

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	41.667	36.002	4	245.000	144.309	-	0.4082	6	0.112	0.095	4	3.168	2.182	-	0.3384		
1598C/1598	1	5	0.000	0.000	5	20.000	20.000	-	0.3739	5	0.000	0.000	5	0.126	0.126	-	0.3739		
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			10.417	9.001		66.250	41.077	-			0.028	0.024		0.824	0.577	-			
Fisher's	Power	0.207			Power-50%	0.000		P-value	0.3172	Power	0.300		Power-50%	0.000		P-value	0.2882		
Stouffer's	Power	0.246			Power-50%	0.000		P-value	0.2030	Power	0.011		Power-50%	0.000		P-value	0.2028		
506C/506	2	6	41.667	41.667	4	7.500	7.500	-	0.9639	6	0.112	0.112	4	0.012	0.012	-	0.9496		
1598C/1598	2	5	0.000	0.000	5	2.000	2.000	-	0.3739	5	0.000	0.000	5	0.008	0.008	-	0.3739		
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	2	5	12.660	12.660	6	0.000	0.000	-	0.3739	5	0.006	0.006	6	0.000	0.000	-	0.3739		
Habitat Means			13.582	13.582		2.375	2.375	-			0.030	0.030		0.005	0.005	+			
Fisher's	Power	---			Power-50%	---		P-value	0.5788	Power	---		Power-50%	---		P-value	0.5755		
Stouffer's	Power	---			Power-50%	---		P-value	0.7294	Power	---		Power-50%	---		P-value	0.7293		
506C/506	3	5	2.000	2.000	4	13.325	13.325	-	0.6304	5	0.004	0.004	4	0.000	0.000	+	0.4896		
1598C/1598	3	5	0.000	0.000	5	2.000	2.000	-	0.3739	5	0.000	0.000	5	0.010	0.010	-	0.3739		
846C/846	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	3	6	58.333	37.631	6	30.000	16.330	+	0.9421	6	0.093	0.057	6	0.107	0.067	-	0.9325		
Habitat Means			15.083	9.908		11.331	7.914	-			0.024	0.015		0.029	0.019	-			
Fisher's	Power	0.255			Power-50%	0.018		P-value	0.4026 _y	Power	0.034		Power-50%	0.022		P-value	0.5553		
Stouffer's	Power	0.301			Power-50%	0.000		P-value	0.2085	Power	0.172		Power-50%	0.000		P-value	0.1994		

Table D 7C, Page 3, December 21, 1994

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

Table D-70, Page 5. December 21, 1994

Table D-70. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	15.000	7.638	4	302.500	219.331	-	0.5051	6	1.113	0.665	4	48.415	41.804	-	0.7356		
1598C/1598	1	5	62.000	36.932	5	58.000	58.000	+	0.3667	5	3.494	1.893	5	4.522	4.522	-	0.3147		
846C/846	1	6	0.000	0.000	6	8.333	4.773	-	0.0823	6	0.000	0.000	6	0.157	0.081	-	0.0772		
1650C/1650	1	5	12.000	7.348	6	0.000	0.000	+	0.1778	5	0.490	0.301	6	0.000	0.000	-	0.1778		
Habitat Means			22.250	12.980		92.208	70.526	-			1.274	0.715		13.274	11.602	-			
Fisher's		Power	0.792		Power-50%	0.388	P-value	0.2849		Power	0.599		Power-50%	0.225	P-value	0.1345			
Stouffer's		Power	0.538		Power-50%	0.284	P-value	0.7529		Power	0.056		Power-50%	0.151	P-value	0.1362			
506C/506	2	6	236.667	171.205	4	17.500	8.539	+	0.1016	6	106.700	92.131	4	1.178	0.480	+	0.0723		
1598C/1598	2	5	78.000	48.000	5	80.000	32.404	-	0.5485	5	5.110	2.586	5	2.968	1.266	-	0.8112		
846C/846	2	6	20.000	12.910	6	15.000	7.188	+	0.9959	6	0.643	0.298	6	1.382	0.753	-	0.8997		
1650C/1650	2	5	142.000	45.100	6	15.000	11.180	+	0.0076	5	5.164	2.252	6	1.413	1.023	-	0.0627		
Habitat Means			119.167	69.304		31.875	14.828	+			29.404	24.317		1.735	0.880	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0141		Power	---		Power-50%	---	P-value	0.0350			
Stouffer's		Power	0.000		Power-50%	0.142	P-value	0.4603		Power	0.001		Power-50%	0.092	P-value	0.2586			
506C/506	3	5	76.000	38.678	4	5.000	5.000	-	0.0716	5	25.170	15.569	4	0.162	0.162	-	0.0228		
1598C/1598	3	5	196.000	137.644	5	666.000	243.508	-	0.0708	5	14.146	11.504	5	38.474	17.466	-	0.1877		
846C/846	3	5	44.660	26.798	6	15.000	6.708	+	0.5240	5	3.398	2.202	6	0.373	0.185	-	0.5626		
1650C/1650	3	6	56.667	29.740	6	56.667	25.122	o	0.6425	6	0.470	0.279	6	2.323	0.942	-	0.3251		
Habitat Means			93.332	58.215		185.667	70.085	-			10.796	7.389		10.333	4.689	-			
Fisher's		Power	0.025		Power-50%	0.157	P-value	0.2522xy		Power	0.007		Power-50%	0.072	P-value	0.1496			
Stouffer's		Power	0.044		Power-50%	0.095	P-value	0.9461		Power	0.042		Power-50%	0.043	P-value	0.0020			

xy Direction of difference between habitat means is different than direction of overall trends.

z Only one site pair.

Table D-70. Page 7. December 21, 1994

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	168.333	85.845	4	282.500	207.701	-	0.6690	6	10.120	5.561	4	22.048	15.237	-	0.5388		
1598C/1598	1	5	1600.000	856.814	5	20.000	20.000	+	0.1199	5	129.820	70.667	5	0.726	0.726	-	0.1381		
846C/846	1	6	100.000	61.914	6	288.333	111.458	-	0.5903	6	14.510	10.335	6	22.948	9.191	-	0.8459		
1650C/1650	1	5	172.660	142.403	6	0.000	0.000	+	0.1842	5	8.581	7.729	6	0.000	0.000	+	0.1825		
Habitat Means			510.248	286.744		147.708	84.790	+			40.758	23.573		11.431	6.289	+			
Fisher's		Power	0.058		Power-50%	0.330	P-value	0.1552		Power	0.067		Power-50%	0.287	P-value	0.1575			
Stouffer's		Power	---		Power-50%	0.301	P-value	0.0528		Power	---		Power-50%	---	P-value	0.0499			
506C/506	2	6	825.000	316.309	4	190.000	128.517	+	0.0704	6	151.667	64.308	4	25.250	18.117	+	0.0767		
1598C/1598	2	5	1322.000	424.375	5	264.660	85.077	+	0.0940	5	228.866	99.450	5	9.827	3.072	-	0.0726		
846C/846	2	6	1180.000	994.314	6	1021.667	380.740	-	0.9959	6	50.687	15.920	6	127.163	49.100	-	0.7280		
1650C/1650	2	5	2372.660	805.776	6	65.000	38.275	+	0.0004	5	163.155	60.223	6	5.833	3.417	+	0.0135		
Habitat Means			1424.915	635.194		385.332	158.152	+			148.594	59.975		42.018	18.427	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0022			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0076		Power	---		Power-50%	---	P-value	0.0145			
506C/506	3	5	1214.000	280.421	4	25.000	14.434	-	0.0021	5	246.374	55.278	4	2.320	1.877	-	0.0392		
1598C/1598	3	5	1632.000	990.502	5	10596.680	4036.045	-	0.0487	5	374.750	254.824	5	1031.953	382.887	-	0.1530		
846C/846	3	5	2977.980	1248.996	6	415.000	162.701	-	0.0448	5	68.905	29.782	6	33.018	15.255	-	0.1457		
1650C/1650	3	6	1136.667	680.831	6	781.667	285.475	+	0.9147	6	79.878	58.223	6	43.463	19.394	-	0.9133		
Habitat Means			1740.162	800.188		2954.587	1124.664	+			192.477	99.527		277.689	104.853	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0035xy		Power	---		Power-50%	---	P-value	0.0625y			
Stouffer's		Power	0.000		Power-50%	0.004	P-value	0.8922		Power	0.000		Power-50%	0.001	P-value	0.8135			

- No above one way test possible.
 y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-70, Page 7. December 21, 1994

Table D-70. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Lacuna spp. - abundance (#/m^2)										Lacuna spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power	---			Power-50%	---		P-value	0.6980	Power	---		Power-50%	---		P-value	0.6980		
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000		
506C/506	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	2	5	8.000	8.000	5	0.000	0.000	-	0.3739	5	0.218	0.218	5	0.000	0.000	-	0.3739		
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	2	5	2.000	2.000	6	0.000	0.000	-	0.3739	5	0.004	0.004	6	0.000	0.000	-	0.3739		
Habitat Means			2.500	2.500		0.000	0.000	+			0.056	0.056		0.000	0.000	-			
Fisher's	Power	---			Power-50%	---		P-value	0.3034	Power	---		Power-50%	---		P-value	0.3034		
Stouffer's	Power	---			Power-50%	---		P-value	0.1486	Power	---		Power-50%	---		P-value	0.1486		
506C/506	3	5	6.000	4.000	4	32.500	32.500	-	0.9239	5	0.002	0.002	4	0.093	0.093	-	0.5335		
1598C/1598	3	5	168.000	168.000	5	0.000	0.000	+	0.3739	5	0.320	0.320	5	0.000	0.000	+	0.3739		
846C/846	3	5	4.000	4.000	6	0.000	0.000	+	0.3739	5	0.010	0.010	6	0.000	0.000	+	0.3739		
1650C/1650	3	6	250.000	242.088	6	0.000	0.000	+	0.2017	6	0.307	0.307	6	0.000	0.000	+	0.3360		
Habitat Means			107.000	104.522		8.125	8.125	-			0.160	0.160		0.023	0.023	-			
Fisher's	Power	0.455			Power-50%	0.182		P-value	0.1289	Power	0.060		Power-50%	0.051		P-value	0.2077		
Stouffer's	Power	---			Power-50%	0.122		P-value	0.0836	Power	---		Power-50%	---		P-value	0.0964		

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

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

z Only one site pair.

Table D-70, Page 9, December 21, 1994

Littorina spp. - abundance (#/m^2)										Littorina spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	1370.000	689.318	4	477.500	264.461	+	0.0692	6	43.997	18.023	4	26.222	11.975	+	0.3801		
1598C/1598	1	5	718.000	285.909	5	8.000	8.000	+	0.1370	5	9.892	3.829	5	0.150	0.150	+	0.0088		
846C/846	1	6	302.783	223.356	6	297.783	132.675	-	0.9907	6	5.402	2.474	6	9.237	4.063	-	0.7246		
1650C/1650	1	5	381.040	119.440	6	3.333	2.108	-	0.4035	5	12.650	4.309	6	0.060	0.054	-	0.0009		
Habitat Means			692.956	329.506		196.654	101.811	-			17.985	7.159		8.917	4.061	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0334	Power	---		Power-50%	---		P-value	0.0002		
Stouffer's	Power	---			Power-50%	0.022		P-value	0.0550	Power	---		Power-50%	---		P-value	0.0008		
506C/506	2	6	595.000	234.133	4	1509.175	752.650	-	0.9481	6	6.625	2.050	4	29.673	12.890	-	0.9703		
1598C/1598	2	5	1492.000	166.565	5	191.340	76.932	+	0.0473	5	19.178	4.066	5	5.285	3.313	+	0.1457		
846C/846	2	6	901.100	187.239	6	928.883	331.258	-	0.5574	6	11.567	3.459	6	18.679	5.796	-	0.3807		
1650C/1650	2	5	1958.000	592.059	6	130.000	42.740	+	0.0155	5	37.307	15.318	6	6.138	2.921	+	0.0870		
Habitat Means			1236.525	294.999		689.850	300.895	+			18.669	6.223		14.944	6.230	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0141	Power	0.000		Power-50%	0.000		P-value	0.1033		
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0116	Power	---		Power-50%	---		P-value	0.0634		
506C/506	3	5	580.000	196.443	4	1675.850	1313.714	-	0.3088	5	1.474	0.672	4	24.311	15.378	-	0.1198		
1598C/1598	3	5	1532.000	1145.921	5	2011.340	670.551	-	0.6348	5	9.546	4.731	5	32.166	9.186	-	0.1806		
846C/846	3	5	3946.020	757.299	6	1317.233	642.605	-	0.0096	5	29.313	2.872	6	16.102	7.505	-	0.1547		
1650C/1650	3	6	838.333	316.316	6	548.333	216.324	-	0.7527	6	4.720	2.242	6	4.688	2.004	-	0.5284		
Habitat Means			1724.088	603.995		1388.189	710.799	-			11.263	2.629		19.317	8.518	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0890	Power	0.000		Power-50%	0.000		P-value	0.1899		
Stouffer's	Power	0.000			Power-50%	0.006		P-value	0.3652	Power	0.002		Power-50%	0.008		P-value	0.2396		

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

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

z Only one site pair.

Table D-70, Page 10, December 21, 1994

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

Table D-70. Page 9. December 21, 1994

Table D-70. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, July 1990. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	911.667	493.034	4	342.500	153.100	+	0.2704	6	37.578	16.550	4	22.995	10.776	+	0.3652		
1598C/1598	1	5	162.000	73.580	5	2.000	2.000	+	0.0059	5	4.286	2.168	5	0.082	0.082	+	0.0161		
846C/846	1	6	106.667	51.618	6	121.667	98.096	-	0.4936	6	3.141	0.916	6	4.290	2.567	-	0.5438		
1650C/1650	1	5	258.380	74.730	6	3.333	2.108	+	0.0004	5	11.671	4.549	6	0.060	0.054	+	0.0006		
Habitat Means			359.679	173.241		117.375	63.826	+			14.169	6.046		6.857	3.370				
Fisher's	Power	---			Power-50%	---		P-value	0.0001	Power	---			Power-50%	---		P-value	0.0002	
Stouffer's	Power	---			Power-50%	0.010		P-value	0.0006	Power	---			Power-50%	---		P-value	0.0018	
506C/506	2	6	271.667	163.553	4	1411.675	693.817	-	0.2597	6	3.082	1.433	4	26.778	12.238	-	0.6258		
1598C/1598	2	5	404.000	100.628	5	144.220	56.574	-	0.1917	5	9.398	3.874	5	4.927	3.252	-	0.3337		
846C/846	2	6	181.100	50.947	6	166.100	58.756	-	0.8645	6	4.549	1.908	6	8.772	4.734	-	0.8220		
1650C/1650	2	5	869.340	453.563	6	90.000	40.823	-	0.0185	5	27.105	15.875	6	5.445	2.974	-	0.0476		
Habitat Means			431.527	192.173		452.999	212.493	-			11.034	5.773		11.481	5.800	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0422	Power	0.000			Power-50%	0.000		P-value	0.1165	
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0338	Power	---			Power-50%	---		P-value	0.0942	
506C/506	3	5	290.000	115.195	4	1541.675	1310.045	-	0.5225	5	0.406	0.159	4	21.617	14.458	-	0.0287		
1598C/1598	3	5	128.000	105.991	5	828.000	376.976	-	0.0313	5	1.352	0.804	5	16.703	5.978	-	0.0367		
846C/846	3	5	144.680	47.094	6	55.000	55.000	+	0.0066	5	2.457	0.840	6	0.460	0.460	+	0.0032		
1650C/1650	3	6	135.000	14.776	6	281.667	108.548	-	0.5030	6	0.810	0.342	6	2.950	1.445	-	0.7177		
Habitat Means			174.420	70.764		676.586	462.642	-			1.256	0.536		10.433	5.585	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0881	Power	---			Power-50%	---		P-value	0.0175	
Stouffer's	Power	---			Power-50%	0.045		P-value	0.0780	Power	0.043			Power-50%	0.024		P-value	0.1096	

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

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

z Only one site pair.

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	458.333	212.672	4	135.000	122.031	+	0.1333	6	6.418	2.663	4	3.228	2.635	+	0.3267		
1598C/1598	1	5	356.000	215.745	5	6.000	6.000	+	0.0115	5	5.606	1.820	5	0.068	0.068	+	0.0241		
846C/846	1	6	196.117	174.583	6	176.117	63.209	+	0.9160	6	2.261	1.948	6	4.947	2.839	-	0.4190		
1650C/1650	1	5	122.660	103.822	6	0.000	0.000	+	0.5382	5	0.979	0.734	6	0.000	0.000	+	0.1796		
Habitat Means			333.278	176.706		79.279	47.810	+			3.816	1.791		2.061	1.136	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0106	Power	---			Power-50%	---		P-value	0.0232	
Stouffer's	Power	---			Power-50%	0.067		P-value	0.0056	Power	---			Power-50%	---		P-value	0.0137	
506C/506	2	6	323.333	78.216	4	97.500	87.595	+	0.0247	6	3.543	0.730	4	2.896	2.551	+	0.2669		
1598C/1598	2	5	1088.000	236.757	5	47.120	37.920	+	0.0029	5	9.780	1.818	5	0.358	0.230	+	0.0176		
846C/846	2	6	720.000	157.881	6	762.783	323.816	-	0.3786	6	7.018	1.740	6	9.907	4.478	-	0.5075		
1650C/1650	2	5	1088.660	445.443	6	40.000	28.402	+	0.0015	5	10.202	3.970	6	0.693	0.524	+	0.0057		
Habitat Means			804.998	229.574		236.851	119.433	+			7.636	2.065		3.464	1.946	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0000	Power	---			Power-50%	---		P-value	0.0011	
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0005	Power	---			Power-50%	---		P-value	0.0034	
506C/506	3	5	290.000	179.137	4	134.175	101.765	-	0.8513	5	1.068	0.547	4	2.694	1.663	-	0.7874		
1598C/1598	3	5	1404.000	1040.301	5	1183.340	357.480	+	0.7783	5	8.194	4.036	5	15.463	4.314	-	0.2061		
846C/846	3	5	3801.340	732.573	6	1262.233	645.760	+	0.0017	5	26.856	2.992	6	15.642	7.417	+	0.0454		
1650C/1650	3	6	703.333	305.185	6	266.667	115.403	+	0.5426	6	3.910	2.016	6	1.738	0.718	+	0.6758		
Habitat Means			1549.668	564.299		711.604	305.102	+			10.007	2.398		8.884	3.528	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0091	Power	0.000			Power-50%	0.000		P-value	0.2040	
Stouffer's	Power	0.000			Power-50%	0.009		P-value	0.1010	Power	0.000			Power-50%	0.003		P-value	0.6998	

Table D-70, Page 11, December 21, 1994

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

Table D-70, Page 11. December 21, 1994

Table D-70. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured. July 1990. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	810.000	260.026	4	910.000	689.456	-	0.3450	6	120.068	58.992	4	280.318	229.792	-	0.5192		
1598C/1598	1	5	160.000	58.481	5	0.000	0.000	+	0.0017	5	13.678	6.165	5	0.000	0.000	+	0.0155		
846C/846	1	6	770.000	700.148	6	318.883	180.256	+	0.6297	6	38.168	35.339	6	32.117	16.096	+	0.5102		
1650C/1650	1	5	36.660	16.461	6	1.667	1.667	+	0.0015	5	1.925	1.096	6	0.005	0.005	+	0.0098		
Habitat Means			444.165	258.779		307.638	217.845	+			43.460	25.398		78.110	61.473	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0001	Power	---		Power-50%	---		P-value	0.0026		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0001	Power	---		Power-50%	---		P-value	0.0011		
506C/506	2	6	668.333	92.138	4	4646.675	3829.822	-	0.4208	6	567.902	162.907	4	731.341	332.897	-	0.9581		
1598C/1598	2	5	902.000	333.757	5	65.540	53.225	-	0.0134	5	336.498	106.202	5	34.092	34.092	-	0.0001		
846C/846	2	6	1378.883	207.063	6	411.667	144.000	+	0.0915	6	294.514	226.822	6	362.212	166.176	-	0.4260		
1650C/1650	2	5	1529.320	492.645	6	10.000	6.831	-	0.0001	5	215.631	95.187	6	0.037	0.029	-	0.0001		
Habitat Means			1119.634	281.401		1283.471	1008.470	-			353.636	147.780		281.921	133.299	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0000 y	Power	---		Power-50%	---		P-value	0.0000		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0001	Power	---		Power-50%	---		P-value	0.0000		
506C/506	3	5	1896.000	391.211	4	7680.825	5064.465	-	0.3584	5	598.406	237.031	4	785.259	415.945	-	0.9366		
1598C/1598	3	5	606.000	255.726	5	966.660	614.822	-	0.8250	5	353.872	275.674	5	193.003	65.622	-	0.4130		
846C/846	3	5	2073.340	610.908	6	336.117	121.438	+	0.0063	5	261.675	63.388	6	20.001	13.690	+	0.0037		
1650C/1650	3	6	1791.667	850.598	6	166.667	55.837	+	0.0043	6	44.407	16.942	6	7.658	2.703	+	0.1271		
Habitat Means			1591.752	527.111		2287.567	1464.141	+			314.590	148.259		251.480	124.490	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0014 y	Power	---		Power-50%	---		P-value	0.0040		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.1081	Power	---		Power-50%	---		P-value	0.0267		

1. Fisher's and Stouffer's Z-scores are based on the null hypothesis of no difference between the two sites.

2. Only one site pair.

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	36.117	22.846	-	0.1747	6	0.000	0.000	6	0.016	0.010	-	0.1750		
1650C/1650	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		9.029	5.712	-			0.000	0.000		0.004	0.003	-			
Fisher's	Power		0.350		Power-50%	---		P-value	0.3394	Power	0.294		Power-50%	---		P-value	0.3397		
Stouffer's	Power		0.085		Power-50%	---		P-value	0.3540	Power	0.097		Power-50%	---		P-value	0.3541		
506C/506	2	6	20.000	10.000	4	10.000	10.000	+	0.3421	6	0.004	0.003	4	0.008	0.008	-	0.8733		
1598C/1598	2	5	2.000	2.000	5	0.000	0.000	+	0.3739	5	0.006	0.006	5	0.000	0.000	-	0.3739		
846C/846	2	6	213.883	165.851	6	78.333	53.816	+	0.9155	6	0.130	0.085	6	0.061	0.039	-	0.9143		
1650C/1650	2	5	4.000	4.000	6	0.000	0.000	+	0.3739	5	0.004	0.004	6	0.000	0.000	-	0.3739		
Habitat Means			59.971	45.463		22.083	15.954	+			0.036	0.025		0.017	0.012	-			
Fisher's	Power		0.757		Power-50%	0.563		P-value	0.1603	Power	0.234		Power-50%	0.381		P-value	0.3080		
Stouffer's	Power		0.551		Power-50%	0.369		P-value	0.1408	Power	0.870		Power-50%	0.271		P-value	0.1420		
506C/506	3	5	1468.000	971.902	4	228.325	138.116	+	0.1027	5	0.906	0.594	4	0.150	0.088	-	0.1428		
1598C/1598	3	5	24.000	11.225	5	14.660	10.407	-	0.5488	5	0.024	0.011	5	0.043	0.043	-	0.4753		
846C/846	3	5	424.000	231.659	6	58.883	33.313	-	0.5514	5	0.442	0.249	6	0.051	0.034	-	0.4208		
1650C/1650	3	6	186.667	158.570	6	1.667	1.667	-	0.2641	6	0.220	0.192	6	0.000	0.000	+	0.1951		
Habitat Means			525.667	343.339		75.884	45.876	+			0.398	0.262		0.061	0.041	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0563	Power	---		Power-50%	---		P-value	0.0930		
Stouffer's	Power		0.242		Power-50%	0.288		P-value	0.1585	Power	0.341		Power-50%	0.266		P-value	0.5477		

Table 7-70. Page 13. December 21, 1994

1. ESTIMATES OF VARIATION AND POWER BASED ON THE ASSUMPTION OF NORMALITY OF THE DATA.
2. Only one site pair.

Table D-70. Page 13. December 21, 1994

1. ESTIMATES OF VARIATION AND POWER BASED ON THE ASSUMPTION OF NORMALITY OF THE DATA.
2. Only one site pair.

Table D-70. Page 14. December 21, 1994

Table D-70. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, July 1990. (Continued.)

Site Pair	MVD	Pagurus spp. - abundance (#/m²)								Pagurus spp. - biomass (g/m²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	0.000	0.000	4	10.000	10.000	-	0.3910	6	0.000	0.000	4	0.438	0.438	-	0.3910
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		2.500	2.500	-			0.000	0.000		0.110	0.110	-	
Fisher's	Power	---			Power-50%	---		P-value	0.4917	Power	---		Power-50%	---		P-value	0.4917
Stouffer's	Power	---			Power-50%	---		P-value	0.4983	Power	---		Power-50%	---		P-value	0.4983
506C/506	2	6	46.667	22.460	4	60.825	29.825	-	0.4093	6	3.155	1.404	4	2.228	1.086	-	0.3480
1598C/1598	2	5	30.000	18.439	5	0.000	0.000	+	0.1779	5	0.716	0.469	5	0.000	0.000	-	0.1783
846C/846	2	6	70.000	70.000	6	63.333	32.830	+	0.2212	6	2.905	2.905	6	1.701	0.841	-	0.2367
1650C/1650	2	5	4.000	4.000	6	0.000	0.000	-	0.3739	5	0.002	0.002	6	0.000	0.000	-	0.3739
Habitat Means			37.667	28.725		31.040	15.664	-			1.695	1.195		0.982	0.482	-	
Fisher's	Power	0.991			Power-50%	0.638		P-value	0.1100	Power	---		Power-50%	---		P-value	0.0430
Stouffer's	Power	---			Power-50%	0.411		P-value	0.0357	Power	---		Power-50%	---		P-value	0.0360
506C/506	3	5	12.000	8.000	4	82.500	42.500	-	0.0435	5	0.718	0.510	4	4.918	2.583	-	0.0515
1598C/1598	3	5	56.000	28.740	5	40.660	24.903	+	0.6464	5	3.128	2.571	5	2.565	2.150	-	0.6588
846C/846	3	5	12.660	10.343	6	0.000	0.000	+	0.1951	5	0.011	0.011	6	0.000	0.000	-	0.3237
1650C/1650	3	6	50.000	15.055	6	1.667	1.667	+	0.0062	6	0.930	0.814	6	0.083	0.083	-	0.1137
Habitat Means			32.665	15.535		31.207	17.268	+			1.197	0.977		1.892	1.204	-	
Fisher's	Power	---			Power-50%	---		P-value	0.0177	Power	0.010		Power-50%	0.070		P-value	0.1675
Stouffer's	Power	---			Power-50%	0.089		P-value	0.0752	Power	0.004		Power-50%	0.027		P-value	0.1453

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

Table D-70, Page 15, December 21, 1994

Nucella spp. - abundance (#/m^2)										Nucella spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D		N	C	SE	N	O	SE	D	P		
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power	---			Power-50%	---		P-value	0.6980	Power	---		Power-50%	---		P-value	0.6980		
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000		
506C/506	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	2	5	4.000	2.449	6	0.000	0.000	+	0.1778	5	2.760	1.762	6	0.000	0.000	-	0.1780		
Habitat Means			1.000	0.612		0.000	0.000	+			0.690	0.441		0.000	0.000	-			
Fisher's	Power	0.000			Power-50%	0.135		P-value	0.3423	Power	0.069		Power-50%	0.077		P-value	0.3425		
Stouffer's	Power	0.000			Power-50%	0.000		P-value	0.3718	Power	0.060		Power-50%	0.000		P-value	0.3719		
506C/506	3	5	0.000	0.000	4	10.000	7.071	-	0.1916	5	0.000	0.000	4	22.350	16.913	-	0.1831		
1598C/1598	3	5	4.000	4.000	5	2.000	2.000	-	0.8716	5	1.060	1.060	5	4.894	4.894	-	0.9110		
846C/846	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	3	6	11.667	9.804	6	0.000	0.000	-	0.1927	6	5.337	4.887	6	0.000	0.000	-	0.1800		
Habitat Means			3.917	3.451		3.000	2.268	+			1.599	1.487		6.811	5.452	-			
Fisher's	Power	0.079			Power-50%	0.041		P-value	0.4405	Power	0.019		Power-50%	0.015		P-value	0.4404		
Stouffer's	Power	0.024			Power-50%	0.159		P-value	0.3229	Power	0.000		Power-50%	0.101		P-value	0.5851		

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

Table D-70, Page 16, December 21, 1994

Table D-70. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Nucella lima - abundance (#/m ²)										Nucella lima - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
506C/506	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	2	5	4.000	2.449	6	0.000	0.000	-	0.1778	5	2.760	1.762	6	0.000	0.000	+	0.1780		
Habitat Means			1.000	0.612		0.000	0.000	.			0.690	0.441		0.000	0.000	+			
Fisher's	Power		0.000		Power-50%	0.119	P-value	0.3423		Power	0.063		Power-50%	0.076	P-value	0.3425			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.3718		Power	0.055		Power-50%	0.000	P-value	0.3719			
506C/506	3	5	0.000	0.000	4	10.000	7.071	-	0.1916	5	0.000	0.000	4	22.350	16.913	-	0.1831		
1598C/1598	3	5	2.000	2.000	5	2.000	2.000	o	1.0000	5	1.010	1.010	5	4.894	4.894	-	0.9080		
846C/846	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	3	6	6.667	4.944	6	0.000	0.000	+	0.1830	6	5.053	4.605	6	0.000	0.000	+	0.1798		
Habitat Means			2.167	1.736		3.000	2.268	.			1.516	1.404		6.811	5.452	-			
Fisher's	Power		0.060		Power-50%	0.166	P-value	0.4576	y	Power	0.023		Power-50%	0.022	P-value	0.4398			
Stouffer's	Power		0.014		Power-50%	0.347	P-value	0.3758		Power	0.000		Power-50%	0.100	P-value	0.5928			

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

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

z Only one site pair.

Table D-70, Page 17, December 21, 1994

Nucella lamellosa - abundance (#/m ²)										Nucella lamellosa - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
506C/506	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
506C/506	3	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	3	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	

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

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

z Only one site pair.

Table D-70, Page 18, December 21, 1994

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

Table D-70, Page 17. December 21, 1994

Table D-70, Page 18. December 21, 1994

Table D-70. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, July 1990. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVC	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	20.000	14.832	4	10.725	6.220	+	0.8612	6	0.082	0.052	4	0.063	0.063	+	0.8505		
1598C/1598	1	5	10.000	4.472	5	0.000	0.000	+	0.0732	5	0.006	0.004	5	0.000	0.000	+	0.1444		
846C/846	1	6	0.000	0.000	6	162.217	63.161	-	0.0087	6	0.000	0.000	6	3.487	1.996	-	0.0071		
1650C/1650	1	5	182.000	182.000	6	3833.333	3689.260	-	0.5638	5	3.422	3.422	6	4.577	4.442	-	0.7617		
Habitat Means			53.000	50.326		1001.569	939.660	-			0.877	0.870		2.032	1.625	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0672x	Power	---		Power-50%	---		P-value	0.0703		
Stoffer's	Power	0.003			Power-50%	0.309		P-value	0.7891	Power	0.000		Power-50%	0.097		P-value	0.7062		
506C/506	2	6	15.000	15.000	4	294.175	277.548	-	0.0890	6	0.123	0.123	4	0.264	0.245	-	0.3840		
1598C/1598	2	5	690.000	415.078	5	4.000	4.000	+	0.0399	5	0.338	0.217	5	0.192	0.192	+	0.4799		
846C/846	2	6	41.667	39.700	6	1697.783	1273.538	-	0.0132	6	0.222	0.142	6	1.114	0.455	-	0.0668		
1650C/1650	2	5	132.660	77.184	6	1579.450	1241.997	-	0.8145	5	1.141	0.789	6	1.225	0.915	-	0.3055		
Habitat Means			219.832	136.741		893.852	699.271	-			0.456	0.318		0.699	0.452	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0205x	Power	---		Power-50%	---		P-value	0.0718		
Stoffer's	Power	0.002			Power-50%	0.027		P-value	0.8774	Power	0.085		Power-50%	0.029		P-value	0.4593		
506C/506	3	5	124.000	69.397	4	549.175	367.134	-	0.4757	5	0.194	0.114	4	0.500	0.278	-	0.5101		
1598C/1598	3	5	468.000	328.929	5	621.340	566.909	-	0.7843	5	0.984	0.501	5	0.343	0.296	+	0.1715		
846C/846	3	5	46.000	33.106	6	459.450	323.325	-	0.4426	5	0.082	0.060	6	0.719	0.346	-	0.3909		
1650C/1650	3	6	536.667	404.431	6	683.333	512.866	-	0.7743	6	0.387	0.246	6	2.983	2.523	-	0.8279		
Habitat Means			293.667	208.966		578.324	442.559	-			0.412	0.230		1.136	0.861	-			
Fisher's	Power	0.002			Power-50%	0.075		P-value	0.2898	Power	0.001		Power-50%	0.078		P-value	0.4393		
Stoffer's	Power	0.003			Power-50%	0.000		P-value	0.2949	Power	0.053		Power-50%	0.000		P-value	0.8363		

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

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

z Only one site pair.

Table D-70, Page 19, December 21, 1994

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVC	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	0.000	0.000	4	2.500	2.500	-	0.3910	6	0.000	0.000	4	0.001	0.001	-	0.3910		
1598C/1598	1	5	2.000	2.000	5	0.000	0.000	+	0.3739	5	0.012	0.012	5	0.000	0.000	+	0.3739		
846C/846	1	6	0.000	0.000	6	28.333	26.384	-	0.2074	6	0.000	0.000	6	0.098	0.074	-	0.1776		
1650C/1650	1	5	0.000	0.000	6	1.667	1.667	-	0.3632	5	0.000	0.000	6	0.001	0.001	-	0.3632		
Habitat Means			0.500	0.500		8.125	7.638	-			0.003	0.003		0.025	0.019	-			
Fisher's	Power	0.338			Power-50%	---		P-value	0.1688	Power	0.944		Power-50%	---		P-value	0.1542		
Stoffer's	Power	0.161			Power-50%	---		P-value	0.6003	Power	0.149		Power-50%	---		P-value	0.5909		
506C/506	2	6	0.000	0.000	4	13.325	13.325	-	0.3910	6	0.000	0.000	4	0.027	0.027	-	0.3910		
1598C/1598	2	5	344.000	203.436	5	0.000	0.000	+	0.0757	5	3.500	2.699	5	0.000	0.000	+	0.0828		
846C/846	2	6	92.783	58.758	6	402.217	183.772	-	0.2429	6	0.765	0.712	6	5.328	2.787	-	0.1741		
1650C/1650	2	5	20.000	11.402	6	0.000	0.000	+	0.0810	5	0.114	0.091	6	0.000	0.000	+	0.0992		
Habitat Means			114.196	68.399		103.886	49.274	+			1.095	0.875		1.339	0.704	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0912	Power	0.020		Power-50%	0.051		P-value	0.1121 y		
Stoffer's	Power	---			Power-50%	0.392		P-value	0.0401	Power	---		Power-50%	---		P-value	0.0511		
506C/506	3	5	52.000	23.958	4	75.000	71.705	-	0.9054	5	0.234	0.126	4	0.160	0.135	-	0.6951		
1598C/1598	3	5	228.000	213.129	5	208.660	106.197	+	0.9156	5	3.210	3.180	5	1.573	0.926	+	0.1351		
846C/846	3	5	20.660	12.662	6	152.217	135.846	-	0.4532	5	0.085	0.062	6	1.013	0.999	-	0.9417		
1650C/1650	3	6	413.333	168.793	6	116.667	74.907	+	0.0816	6	2.378	0.718	6	0.675	0.576	+	0.0584		
Habitat Means			178.498	104.636		138.136	97.164	+			1.477	1.022		0.855	0.659	+			
Fisher's	Power	0.007			Power-50%	0.131		P-value	0.2882	Power	---		Power-50%	---		P-value	0.0447		
Stoffer's	Power	0.005			Power-50%	0.101		P-value	0.3770	Power	---		Power-50%	---		P-value	0.0335		

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

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

z Only one site pair.

Table D-72, Page 20, December 21, 1994

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

Table D-70. Page 19. December 21, 1994

Table D-70. Page 20. December 21, 1994

Table D-70, Invertebrate Abundance and Biomass, Prince William Sound, Coarse Textured, July 1990. (Continued.)

Site Pair	MVD	Errant polychaetes - abundance (#/m ²)								Errant polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	1	6	0.000	0.000	6	6.667	6.667	-	0.3632	6	0.000	0.000	6	0.013	0.013	-	0.3632
1650C/1650	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		1.667	1.667	-			0.000	0.000		0.003	0.003	-	
Fisher's		Power	---		Power-50%	---		P-value	0.4765	Power	---		Power-50%	---		P-value	0.4765
Stouffer's		Power	---		Power-50%	---		P-value	0.4010	Power	---		Power-50%	---		P-value	0.4010
506C/506	2	6	246.667	110.020	4	22.500	14.361	+	0.3110	6	0.075	0.040	4	0.016	0.015	-	0.4498
1598C/1598	2	5	76.000	54.461	5	0.000	0.000	+	0.0319	5	0.070	0.038	5	0.000	0.000	-	0.0643
846C/846	2	6	68.333	44.752	6	31.667	20.235	+	0.7109	6	0.674	0.663	6	1.684	0.756	-	0.3823
1650C/1650	2	5	36.000	31.081	6	0.000	0.000	+	0.1044	5	0.022	0.021	6	0.000	0.000	+	0.2895
Habitat Means			106.750	60.079		13.542	8.649	+			0.210	0.191		0.425	0.193	+	
Fisher's		Power	---		Power-50%	---		P-value	0.0104	Power	---		Power-50%	---		P-value	0.0780
Stouffer's		Power	---		Power-50%	---	0.133	P-value	0.0063	Power	---		Power-50%	---		P-value	0.0409
506C/506	3	5	430.000	198.645	4	212.500	115.569	-	0.5628	5	0.696	0.443	4	0.628	0.506	+	0.6185
1598C/1598	3	5	670.000	443.170	5	62.000	39.294	-	0.0922	5	2.754	2.476	5	2.450	1.583	+	0.5804
846C/846	3	5	176.000	114.263	6	172.783	63.676	-	0.9924	5	3.944	3.917	6	0.302	0.140	+	0.5985
1650C/1650	3	6	566.667	415.369	6	5.000	5.000	-	0.0886	6	0.734	0.591	6	0.000	0.000	+	0.0146
Habitat Means			460.667	292.862		113.071	55.885	+			2.032	1.857		0.845	0.557	+	
Fisher's		Power	---		Power-50%	---		P-value	0.0380	Power	---		Power-50%	---		P-value	0.0293
Stouffer's		Power	---		Power-50%	---	0.067	P-value	0.0236	Power	0.073		Power-50%	0.027		P-value	0.1049

Site Pair	MVD	Sedentary polychaetes - abundance (#/m ²)								Sedentary polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---		P-value	0.6980	Power	---		Power-50%	---		P-value	0.6980
Stouffer's		Power	---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
506C/506	2	6	453.333	260.226	4	27.500	24.281	+	0.2682	6	0.587	0.392	4	0.010	0.010	-	0.2787
1598C/1598	2	5	74.000	71.526	5	0.000	0.000	+	0.2247	5	0.156	0.156	5	0.000	0.000	-	0.3428
846C/846	2	6	236.667	206.328	6	0.000	0.000	+	0.1822	6	0.515	0.365	6	0.000	0.000	-	0.1757
1650C/1650	2	5	29.320	20.815	6	0.000	0.000	+	0.1815	5	0.006	0.006	6	0.000	0.000	+	0.2828
Habitat Means			198.330	139.724		6.875	6.070	+			0.316	0.230		0.003	0.003	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0214	Power	---		Power-50%	---		P-value	0.0390
Stouffer's		Power	---		Power-50%	---	0.171	P-value	0.0338	Power	---		Power-50%	---		P-value	0.0640
506C/506	3	5	1324.000	494.536	4	100.000	81.240	+	0.0669	5	1.908	0.615	4	0.013	0.008	-	0.0422
1598C/1598	3	5	294.000	179.544	5	0.000	0.000	+	0.0017	5	0.428	0.241	5	0.000	0.000	-	0.0142
846C/846	3	5	192.680	125.547	6	13.333	8.028	+	0.0131	5	1.983	1.773	6	0.003	0.003	-	0.0008
1650C/1650	3	6	195.000	90.065	6	0.000	0.000	+	0.0276	6	0.355	0.211	6	0.000	0.000	-	0.0300
Habitat Means			501.420	222.423		28.333	22.317	+			1.169	0.710		0.004	0.003	+	
Fisher's		Power	---		Power-50%	---		P-value	0.0000	Power	---		Power-50%	---		P-value	0.0000
Stouffer's		Power	---		Power-50%	---	0.000	P-value	0.0000	Power	---		Power-50%	---		P-value	0.0001

x At least one site pair p-value < 0.001 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-70, Page 21, December 21, 1994

Table D-70. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. July 1990. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	2276.667	1006.190	4	891.775	325.724	+	0.8877	6	0.623	0.287	4	0.432	0.185	-	0.9716		
1598C/1598	1	5	806.000	373.478	5	8.000	8.000	+	0.1000	5	0.272	0.115	5	0.008	0.008	+	0.0639		
846C/846	1	6	1812.783	607.834	6	2116.884	800.223	-	0.7395	6	0.722	0.219	6	0.954	0.456	-	0.5633		
1650C/1650	1	5	1413.140	655.020	6	136.667	44.920	+	0.0341	5	0.908	0.474	6	0.118	0.045	-	0.0662		
Habitat Means			1577.148	660.631		788.332	294.717	+			0.632	0.274		0.378	0.174	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0336	Power	---		Power-50%	---		P-value	0.0452		
Stouffer's	Power		---		Power-50%	0.041		P-value	0.0254	Power	---		Power-50%	---		P-value	0.0222		
506C/506	2	6	1471.667	864.235	4	1524.175	1145.151	-	0.9697	6	0.353	0.198	4	1.036	0.517	-	0.5078		
1598C/1598	2	5	2068.000	1871.126	5	1086.520	494.283	-	0.4706	5	0.500	0.403	5	0.280	0.123	+	0.5556		
846C/846	2	6	668.883	235.528	6	2680.550	828.442	-	0.1105	6	0.251	0.064	6	0.873	0.274	-	0.2316		
1650C/1650	2	5	2854.660	1002.158	6	817.217	319.675	+	0.1228	5	1.303	0.550	6	0.327	0.126	+	0.2503		
Habitat Means			1765.803	993.262		1527.116	696.888	-			0.602	0.304		0.629	0.260	-			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.4430 y	Power	0.000		Power-50%	0.000		P-value	0.4362		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.7273	Power	0.000		Power-50%	0.000		P-value	0.6891		
506C/506	3	5	2896.000	2479.263	4	6865.000	4843.041	-	0.2258	5	0.380	0.197	4	3.176	2.474	-	0.2774		
1598C/1598	3	5	60.000	31.145	5	2774.000	1690.523	-	0.0034	5	0.012	0.012	5	0.829	0.524	-	0.0038		
846C/846	3	5	1540.000	597.252	6	1599.450	792.458	-	0.7820	5	0.519	0.230	6	0.482	0.263	-	0.9328		
1650C/1650	3	6	3206.667	937.570	6	1853.883	866.933	+	0.4415	6	1.498	0.368	6	0.556	0.244	-	0.6647		
Habitat Means			1925.667	1011.308		3273.083	2048.239	-			0.602	0.202		1.261	0.876	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0124	Power	---		Power-50%	---		P-value	0.0175		
Stouffer's	Power		---		Power-50%	0.063		P-value	0.0044	Power	---		Power-50%	---		P-value	0.0031		

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

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

z Only one site pair.

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Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	5671.667	2035.643	4	4337.500	1095.836	-	0.6578	6	183.978	77.114	4	385.290	283.602	-	0.8129		
1598C/1598	1	5	4284.000	1133.316	5	138.000	115.948	-	0.1653	5	182.943	90.631	5	5.986	5.661	+	0.0019		
846C/846	1	6	3917.233	1883.632	6	4021.317	1191.641	-	0.9691	6	64.463	50.628	6	75.766	31.760	-	0.7633		
1650C/1650	1	5	2770.740	1033.411	6	3976.667	3715.074	-	0.6695	5	34.524	12.257	6	4.760	4.532	+	0.0047		
Habitat Means			4160.910	1521.501		3118.371	1529.625	-			116.477	57.658		117.951	81.389	+			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.3136	Power	---		Power-50%	---		P-value	0.0005 y		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.1193	Power	---		Power-50%	---		P-value	0.0002		
506C/506	2	6	5526.667	937.353	4	9725.825	4450.008	-	0.3759	6	847.778	218.558	4	807.381	350.867	+	0.8876		
1598C/1598	2	5	7790.000	2368.073	5	1940.600	611.006	+	0.2107	5	602.254	118.600	5	60.081	32.469	+	0.0592		
846C/846	2	6	7358.883	3027.543	6	8435.533	1859.378	-	0.7986	6	399.185	258.551	6	531.641	192.662	-	0.6050		
1650C/1650	2	5	20438.559	7117.749	6	2676.667	1481.474	+	0.0003	5	446.486	146.743	6	16.052	6.603	-	0.1149		
Habitat Means			10278.527	3362.680		5694.656	2100.467	+			573.926	185.613		353.789	145.650	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0027	Power	---		Power-50%	---		P-value	0.0573		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0246	Power	---		Power-50%	---		P-value	0.0230		
506C/506	3	5	11802.000	3804.732	4	20094.150	6522.755	-	0.2570	5	916.532	299.742	4	837.657	443.651	-	0.5430		
1598C/1598	3	5	7266.000	3436.077	5	23111.340	9452.575	-	0.0035	5	857.094	461.390	5	1417.773	467.650	-	0.0727		
846C/846	3	5	15604.641	1005.275	6	7377.783	1838.937	+	0.0252	5	448.407	70.410	6	168.806	71.798	-	0.0753		
1650C/1650	3	6	12218.333	2596.286	6	4900.550	674.669	+	0.0429	6	244.732	73.876	6	65.170	22.925	-	0.0523		
Habitat Means			11722.744	2710.593		13870.956	4622.234	-			616.691	226.355		627.352	251.506	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0315x	Power	---		Power-50%	---		P-value	0.0354xy		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0534	Power	0.000		Power-50%	0.000		P-value	0.7595z		

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

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

z Only one site pair.

Table D-70, Page 23, December 21, 1994

Table D-71. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	33.333	17.062	4	0.000	0.000	+	0.0299	6	3.715	1.704	4	0.000	0.000	+	0.0261		
1598C/1598	1	5	10.000	10.000	5	70.000	70.000	-	0.7915	5	2.010	2.010	5	7.030	7.030	-	0.9307		
846C/846	1	4	0.000	0.000	6	10.000	10.000	-	0.3632	4	0.000	0.000	6	1.215	1.215	-	0.3632		
1650C/1650	1	6	45.000	41.130	6	0.000	0.000	+	0.1963	6	5.253	4.872	6	0.000	0.000	-	0.1808		
Habitat Means			22.083	17.048		20.000	20.000	+			2.745	2.147		2.061	2.061	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0706	Power	---		Power-50%	---		P-value	0.0565		
Stouffer's		Power	0.000		Power-50%	0.158		P-value	0.5682	Power	0.000		Power-50%	0.125		P-value	0.4983		
506C/506	2	6	13.333	8.433	4	60.000	27.386	-	0.0163	6	6.722	5.729	4	12.202	5.688	-	0.0224		
1598C/1598	2	5	18.400	9.826	5	8.000	8.000	+	0.2347	5	1.749	0.985	5	1.614	1.614	+	0.2456		
846C/846	2	6	3.333	3.333	6	20.667	10.541	-	0.0905	6	0.302	0.302	6	2.666	1.794	-	0.0840		
1650C/1650	2	6	55.550	18.372	6	3.333	3.333	+	0.0034	6	6.829	3.184	6	0.342	0.342	+	0.0097		
Habitat Means			22.654	9.991		23.000	12.315	+			3.901	2.550		4.206	2.360	+			
Fisher's		Power	---		Power-50%	---		P-value	0.0286xy	Power	---		Power-50%	---		P-value	0.0599xy		
Stouffer's		Power	---		Power-50%	0.428		P-value	0.0907	Power	0.001		Power-50%	1.218		P-value	0.1114		
506C/506	3	6	13.333	13.333	4	45.000	22.174	-	0.0629	6	4.063	4.063	4	3.172	1.583	-	0.7969		
1598C/1598	3	4	5.000	2.887	5	56.580	30.918	-	0.2559	4	0.478	0.347	5	4.255	2.252	-	0.2973		
846C/846	3	6	27.233	17.012	6	1.667	1.667	+	0.1559	6	3.425	2.364	6	0.155	0.155	+	0.2945		
1650C/1650	3	6	35.000	23.770	6	1.667	1.667	+	0.0801	6	3.820	2.530	6	0.293	0.293	+	0.2589		
Habitat Means			20.142	14.251		26.229	14.107	-			2.947	2.326		1.969	1.071	+			
Fisher's		Power	0.027		Power-50%	0.542		P-value	0.1866x	Power	0.125		Power-50%	0.413		P-value	0.2593		
Stouffer's		Power	0.007		Power-50%	0.386		P-value	0.4014	Power	0.012		Power-50%	0.334		P-value	0.6572		

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

Tab: D-71, Page 1, December 21, 1994

Lottia pelta - abundance (#/m ²)										Lottia pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	3.333	2.108	4	0.000	0.000	-	0.1747	6	0.718	0.512	4	0.000	0.000	-	0.1756		
1598C/1598	1	5	6.000	6.000	5	4.000	4.000	-	0.9345	5	1.718	1.718	5	0.744	0.744	-	0.9472		
846C/846	1	4	0.000	0.000	6	3.333	3.333	-	0.3632	4	0.000	0.000	6	0.308	0.308	-	0.3632		
1650C/1650	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			2.333	2.027		1.833	1.833	+			0.609	0.558		0.263	0.263	+			
Fisher's		Power	0.463		Power-50%	0.458		P-value	0.4157	Power	0.271		Power-50%	0.170		P-value	0.4192		
Stouffer's		Power	0.189		Power-50%	0.421		P-value	0.5666	Power	0.000		Power-50%	0.247		P-value	0.5725		
506C/506	2	6	3.333	3.333	4	37.500	7.500	-	0.0016	6	5.578	5.578	4	7.107	2.826	-	0.0139		
1598C/1598	2	5	2.000	2.000	5	0.000	0.000	+	0.3739	5	0.282	0.282	5	0.000	0.000	+	0.3739		
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	2	6	6.667	6.667	6	0.000	0.000	+	0.3632	6	2.652	2.652	6	0.000	0.000	+	0.3632		
Habitat Means			3.000	3.000		9.375	1.875	+			2.128	2.128		1.777	0.707	+			
Fisher's		Power	1.000		Power-50%	---		P-value	0.4186xy	Power	0.999		Power-50%	---		P-value	0.4174x		
Stouffer's		Power	1.000		Power-50%	---		P-value	0.1511	Power	0.963		Power-50%	---		P-value	0.1503		
506C/506	3	6	6.667	6.667	4	27.500	11.087	-	0.2835	6	2.445	2.445	4	1.840	0.694	-	0.7997		
1598C/1598	3	4	5.000	2.887	5	28.580	18.494	-	0.2435	4	0.478	0.347	5	2.423	1.566	-	0.4342		
846C/846	3	6	23.900	17.611	6	0.000	0.000	+	0.1712	6	3.152	2.420	6	0.000	0.000	-	0.1454		
1650C/1650	3	6	21.667	19.734	6	0.000	0.000	-	0.2137	6	1.577	1.401	6	0.000	0.000	-	0.4612		
Habitat Means			14.309	11.725		14.020	7.395	+			1.913	1.653		1.066	0.565	+			
Fisher's		Power	0.800		Power-50%	0.378		P-value	0.2683	Power	0.900		Power-50%	0.392		P-value	0.2317		
Stouffer's		Power	0.764		Power-50%	0.480		P-value	0.6594	Power	0.469		Power-50%	0.281		P-value	0.5578		

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

Table D-71.

brate Abundance and Biomass. Prince William Sound, Coarse Textured, May 1991. (Continued.)

Site Pair	MVD	Tectura persona - abundance (#/m ²)								Tectura persona - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	26.667	17.448	4	0.000	0.000	+	0.0833	6	2.632	1.709	4	0.000	0.000	-	0.0777
1598C/1598	1	5	4.000	4.000	5	66.000	66.000	-	0.6849	5	0.292	0.292	5	6.286	6.286	-	0.8146
846C/846	1	4	0.000	0.000	6	6.667	6.667	-	0.3632	4	0.000	0.000	6	0.907	0.907	-	0.3632
1650C/1650	1	6	45.000	41.130	6	0.000	0.000	-	0.1963	6	5.253	4.872	6	0.000	0.000	-	0.1808
Habitat Means			18.917	15.645		18.167	18.167	-			2.044	1.718		1.798	1.798	+	
Fisher's		Power	0.022		Power-50%	0.109	P-value	0.1409		Power	0.014		Power-50%	0.093	P-value	0.1207	
Stouffer's		Power	0.000		Power-50%	0.208	P-value	0.6201		Power	0.000		Power-50%	0.101	P-value	0.5537	
506C/506	2	6	8.333	6.540	4	17.500	17.500	-	0.5576	6	1.050	0.864	4	4.655	4.655	-	0.9592
1598C/1598	2	5	10.000	7.746	5	6.000	6.000	+	0.7936	5	0.488	0.331	5	1.272	1.272	-	0.6620
846C/846	2	6	3.333	3.333	6	10.667	10.667	-	0.5998	6	0.302	0.302	6	1.888	1.888	-	0.8880
1650C/1650	2	6	47.217	18.041	6	3.333	3.333	+	0.0031	6	4.074	1.603	6	0.342	0.342	+	0.0126
Habitat Means			17.221	8.915		9.375	9.375	+			1.479	0.780		2.039	2.039	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0402		Power	0.971		Power-50%	0.395	P-value	0.7232	x
Stouffer's		Power	0.000		Power-50%	0.541	P-value	0.2081		Power	0.919		Power-50%	0.347	P-value	0.5636	
506C/506	3	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
1598C/1598	3	4	0.000	0.000	5	24.000	17.493	-	0.1830	4	0.000	0.000	5	1.640	1.204	-	0.1792
846C/846	3	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.200	0.200	6	0.155	0.155	-	0.9799
1650C/1650	3	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.123	0.123	6	0.293	0.293	-	0.9326
Habitat Means			0.834	0.834		6.834	5.207	-			0.081	0.081		0.522	0.413	-	
Fisher's		Power	0.091		Power-50%	---	P-value	0.3472		Power	0.237		Power-50%	---	P-value	0.3353	
Stouffer's		Power	0.114		Power-50%	---	P-value	0.1077		Power	0.346		Power-50%	---	P-value	0.1033	

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-71, Page 3, December 21, 1994

Site Pair	MVD	Tectura scutum - abundance (#/m ²)								Tectura scutum - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	1	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
506C/506	2	6	1.667	1.667	4	0.000	0.000	+	0.3632	6	0.093	0.093	4	0.000	0.000	+	0.3632
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	2	6	0.000	0.000	6	6.667	6.667	-	0.3632	6	0.000	0.000	6	0.513	0.513	-	0.3632
1650C/1650	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.417	0.417		1.667	1.667	-			0.023	0.023		0.128	0.128	+	
Fisher's		Power	---		Power-50%	---	P-value	0.5820 y		Power	---		Power-50%	---	P-value	0.5820 y	
Stouffer's		Power	---		Power-50%	---	P-value	0.5973		Power	---		Power-50%	---	P-value	0.5973	
506C/506	3	6	6.667	6.667	4	15.000	9.574	-	0.3580	6	1.618	1.618	4	1.185	0.849	+	0.4051
1598C/1598	3	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	3	6	5.000	5.000	6	0.000	0.000	+	0.3632	6	0.860	0.860	6	0.000	0.000	+	0.3632
Habitat Means			2.917	2.917		3.750	2.394	-			0.620	0.620		0.296	0.212	+	
Fisher's		Power	0.000		Power-50%	---	P-value	0.5788		Power	0.665		Power-50%	---	P-value	0.3114	
Stouffer's		Power	0.000		Power-50%	---	P-value	0.5855		Power	0.069		Power-50%	---	P-value	0.4111	

x At least one site pair P-value < 0.10 in opposite direction of overall tests.
 y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-71, Page 4, December 21, 1994

Table D-71. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, May 1991. (Continued.)

Balanomorphs - abundance (#/m ²)										Balanomorphs - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	643.333	346.965	4	2312.500	2219.472	-	0.9230	6	31.902	17.258	4	100.165	93.037	-	0.9882		
1598C/1598	1	5	177.860	87.041	5	1604.000	1604.000	-	0.1744	5	16.431	10.727	5	85.334	85.334	-	0.0807		
846C/846	1	4	1413.325	973.054	6	828.883	510.713	-	0.3725	4	81.296	52.215	6	49.243	30.602	-	0.2005		
1650C/1650	1	6	53.817	31.063	6	0.000	0.000	+	0.0308	6	1.897	1.045	6	0.000	0.000	-	0.0284		
Habitat Means			572.084	359.531		1186.346	1083.546	+			32.882	20.311		58.686	52.243	-			
Fisher's	Power		0.000		Power-50%	0.001	P-value	0.1075		Power	---		Power-50%	---	P-value	0.0684			
Stouffer's	Power		0.000		Power-50%	0.002	P-value	0.6893		Power	0.000		Power-50%	0.000	P-value	0.7703			
506C/506	2	6	886.100	373.813	4	615.000	407.134	+	0.2769	6	149.130	68.740	4	54.900	31.986	+	0.2978		
1598C/1598	2	5	2518.400	697.464	5	950.000	650.869	+	0.0808	5	258.619	78.485	5	105.124	84.612	+	0.0875		
846C/846	2	6	1829.983	1053.259	6	2365.983	765.320	-	0.0679	6	99.482	58.276	6	173.831	69.462	-	0.3575		
1650C/1650	2	6	2142.767	595.631	6	13.333	13.333	+	0.0001	6	149.717	25.933	6	1.020	1.020	+	0.0705		
Habitat Means			1844.313	680.042		986.079	459.164	+			164.237	57.859		83.719	46.770	+			
Fisher's	Power	---			Power-50%	---	P-value	0.0002		Power	---		Power-50%	---	P-value	0.0286			
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0192		Power	---		Power-50%	---	P-value	0.0376			
506C/506	3	6	1121.100	422.460	4	42.500	16.520	+	0.0035	6	249.139	141.254	4	2.948	2.496	-	0.1187		
1598C/1598	3	4	284.500	195.415	5	4350.580	2025.816	-	0.0381	4	20.392	8.044	5	392.328	179.870	-	0.0260		
846C/846	3	6	2136.683	996.131	6	1193.900	577.415	-	0.7734	6	186.344	85.901	6	162.194	83.990	-	0.8618		
1650C/1650	3	6	2463.333	839.917	6	358.333	252.935	-	0.0074	6	211.889	99.270	6	0.000	0.000	-	0.3632		
Habitat Means			1501.404	613.481		1486.328	718.172	-			166.941	83.617		139.368	66.589	-			
Fisher's	Power	---			Power-50%	---	P-value	0.0011		Power	0.000		Power-50%	0.000	P-value	0.2150			
Stouffer's	Power	0.000			Power-50%	0.000	P-value	0.8820		Power	0.000		Power-50%	0.000	P-value	0.9636			

2. PROPORTION OF OBSERVATIONS EXCEEDING MEANS IN DIFFERENT DIRECTION OF COMPARISON

3. Only one site pair.

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	70.000	47.819	4	995.000	985.025	-	0.5922	6	0.243	0.154	4	9.957	9.904	-	0.5342		
1598C/1598	1	5	0.000	0.000	5	110.000	110.000	-	0.3739	5	0.000	0.000	5	0.848	0.848	-	0.3739		
846C/846	1	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			17.500	11.955		276.250	273.756	-			0.061	0.039		2.701	2.688	-			
Fisher's	Power	0.011			Power-50%	0.028	P-value	0.3807		Power	0.011		Power-50%	0.034	P-value	0.3624			
Stouffer's	Power	0.017			Power-50%	0.005	P-value	0.2034		Power	0.000		Power-50%	0.052	P-value	0.2033			
506C/506	2	6	1.667	1.667	4	87.500	84.200	-	0.2043	6	0.003	0.003	4	0.373	0.353	-	0.1657		
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	2	6	5.000	3.416	6	0.000	0.000	+	0.1784	6	0.025	0.021	6	0.000	0.000	-	0.1887		
Habitat Means			1.667	1.271		21.875	21.050	-			0.007	0.006		0.093	0.088	-			
Fisher's	Power	0.014			Power-50%	0.273	P-value	0.4511		Power	0.002		Power-50%	0.030	P-value	0.4381			
Stouffer's	Power	0.019			Power-50%	0.294	P-value	0.3744		Power	0.000		Power-50%	0.034	P-value	0.6225			
506C/506	3	6	0.000	0.000	4	15.000	9.574	-	0.1848	6	0.000	0.000	4	0.165	0.152	-	0.2037		
1598C/1598	3	4	0.000	0.000	5	14.000	9.798	-	0.1824	4	0.000	0.000	5	0.032	0.027	-	0.1936		
846C/846	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	3	6	197.217	159.823	6	20.000	18.074	+	0.1911	6	1.306	1.161	6	0.283	0.249	+	0.3835		
Habitat Means			49.304	39.956		12.250	9.361	-			0.327	0.290		0.120	0.107	-			
Fisher's	Power	0.148			Power-50%	0.000	P-value	0.1939		Power	0.162		Power-50%	0.000	P-value	0.1988			
Stouffer's	Power	0.261			Power-50%	0.000	P-value	0.1763		Power	0.141		Power-50%	0.000	P-value	0.1576			

1. PROPORTION OF DIFFERENCE BETWEEN MEANS IS DIFFERENCE BETWEEN MEANS OF OVERALL MEANS.
2. Only one site pair.

Table D-71. Page 5. December 21, 1994

1. PROPORTION OF DIFFERENCE BETWEEN MEANS IS DIFFERENCE BETWEEN MEANS OF OVERALL MEANS.
2. Only one site pair.

Table D-71. Page 6. December 21, 1994

Table D-71. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, May 1991. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	18.333	9.804	4	530.000	506.935	-	0.5148	6	1.013	0.500	4	32.550	28.687	-	0.6563		
1598C/1598	1	5	36.000	18.601	5	276.000	276.000	-	0.6032	5	1.494	0.984	5	17.608	17.608	-	0.4759		
846C/846	1	4	2.500	2.500	6	27.217	14.713	-	0.3001	4	0.218	0.218	6	1.510	1.046	-	0.4443		
1650C/1650	1	6	8.333	5.426	6	0.000	0.000	+	0.1757	6	0.482	0.405	6	0.000	0.000	-	0.1792		
Habitat Means			16.292	9.083		208.304	199.412	-			0.802	0.527		12.917	11.835	-			
Fisher's			Power	0.330		Power-50%	0.766	P-value	0.3348		Power	0.263		Power-50%	0.475	P-value	0.4051		
Stouffer's			Power	0.119		Power-50%	0.829	P-value	0.3286		Power	0.006		Power-50%	0.563	P-value	0.2911		
506C/506	2	6	68.333	22.123	4	30.000	14.720	-	0.4400	6	7.614	2.596	4	3.505	1.207	+	0.6420		
1598C/1598	2	5	416.000	376.239	5	168.000	63.671	+	0.7300	5	50.650	49.090	5	6.354	1.762	+	0.8855		
846C/846	2	6	28.883	26.933	6	44.433	12.604	-	0.0292	6	0.929	0.698	6	2.106	0.974	-	0.0289		
1650C/1650	2	6	170.000	48.854	6	11.667	11.667	+	0.0011	6	6.768	1.608	6	1.017	1.017	+	0.0033		
Habitat Means			170.804	118.537		63.525	25.666	+			16.490	13.498		3.246	1.240	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0100x		Power	---		Power-50%	---	P-value	0.0329x		
Stouffer's			Power	0.026		Power-50%	0.108	P-value	0.3035		Power	0.006		Power-50%	0.086	P-value	0.4029		
506C/506	3	6	106.100	47.924	4	10.000	4.082	+	0.3035	6	31.271	24.651	4	0.207	0.122	-	0.1495		
1598C/1598	3	4	139.000	94.451	5	330.580	112.368	-	0.0529	4	6.240	3.688	5	12.706	5.068	-	0.2086		
846C/846	3	6	29.450	13.674	6	68.333	38.593	-	0.6396	6	1.505	1.342	6	1.975	0.999	-	0.7084		
1650C/1650	3	6	196.117	54.200	6	100.000	69.330	+	0.2508	6	5.808	1.849	6	4.605	3.785	-	0.0442		
Habitat Means			117.667	52.562		127.228	56.093	-			11.206	7.883		4.873	2.494	-			
Fisher's			Power	0.094		Power-50%	0.123	P-value	0.2552		Power	---		Power-50%	---	P-value	0.0842		
Stouffer's			Power	---		Power-50%	0.283	P-value	0.0499		Power	0.000		Power-50%	0.190	P-value	0.7815		

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	535.000	342.488	4	675.000	615.379	-	0.8152	6	29.882	16.750	4	55.590	52.473	-	0.8009		
1598C/1598	1	5	124.000	86.116	5	1086.000	1086.000	-	0.5731	5	13.182	9.815	5	64.860	64.860	-	0.3897		
846C/846	1	4	1158.325	786.918	6	446.667	238.683	+	0.3089	4	76.117	49.673	6	43.095	26.017	-	0.1949		
1650C/1650	1	6	15.483	9.637	6	0.000	0.000	+	0.0856	6	0.955	0.755	6	0.000	0.000	-	0.0806		
Habitat Means			458.202	306.290		551.917	485.016	+			30.034	19.248		40.886	35.838	-			
Fisher's			Power	0.001		Power-50%	0.065	P-value	0.1622 y		Power	0.000		Power-50%	0.083	P-value	0.1288 y		
Stouffer's			Power	0.000		Power-50%	0.243	P-value	0.4313		Power	0.000		Power-50%	0.244	P-value	0.5077		
506C/506	2	6	731.100	342.166	4	407.500	237.816	+	0.3109	6	138.216	67.245	4	49.143	29.501	+	0.2146		
1598C/1598	2	5	1742.140	641.461	5	760.000	640.180	+	0.0884	5	200.408	91.485	5	98.342	84.340	+	0.1322		
846C/846	2	6	1197.217	672.333	6	1833.333	667.387	-	0.1507	6	80.736	45.919	6	161.965	69.194	-	0.1717		
1650C/1650	2	6	1832.217	534.112	6	0.000	0.000	+	0.0001	6	137.832	24.753	6	0.000	0.000	+	0.0001		
Habitat Means			1375.669	547.518		750.208	386.346	+			139.298	57.351		77.363	45.759	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0002		Power	---		Power-50%	---	P-value	0.0002		
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0163		Power	---		Power-50%	---	P-value	0.0242		
506C/506	3	6	771.667	379.530	4	12.500	12.500	+	0.0215	6	203.726	119.638	4	2.500	2.500	+	0.0085		
1598C/1598	3	4	90.000	60.415	5	3584.000	1825.721	-	0.1786	4	13.250	7.665	5	344.546	179.070	-	0.4700		
846C/846	3	6	1815.783	876.255	6	892.783	505.995	+	0.3458	6	153.922	67.287	6	149.937	80.928	-	0.4541		
1650C/1650	3	6	1796.117	817.096	6	226.667	156.177	+	0.0182	6	190.709	93.223	6	25.645	16.570	-	0.0234		
Habitat Means			1118.392	533.324		1178.988	625.098	+			140.402	71.953		130.657	69.767	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0046 y		Power	---		Power-50%	---	P-value	0.0030		
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.6578		Power	0.000		Power-50%	0.000	P-value	0.4609		

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

Table D-71, Page 7, December 21, 1994

Table D-71. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. May 1991. (Continued.)

Lacuna spp. - abundance (#/m^2)										Lacuna spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---		P-value	0.6980	Power	---		Power-50%	---		P-value	0.6980		
Stouffer's		Power	---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000		
506C/506	2	6	0.000	0.000	4	6.675	6.675	-	0.3910	6	0.000	0.000	4	0.040	0.040	-	0.3910		
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	2	6	0.000	0.000	6	8.883	8.883	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
Habitat Means			0.000	0.000		3.890	3.890	-			0.000	0.000		0.010	0.010	-			
Fisher's		Power	---		Power-50%	---		P-value	0.3059	Power	---		Power-50%	---		P-value	0.3059		
Stouffer's		Power	---		Power-50%	---		P-value	0.4110	Power	---		Power-50%	---		P-value	0.4110		
506C/506	3	6	0.000	0.000	4	25.000	21.794	-	0.2101	6	0.000	0.000	4	0.798	0.501	-	0.1823		
1598C/1598	3	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	3	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.045	0.045	-	0.3632		
1650C/1650	3	6	10.000	8.165	6	0.000	0.000	+	0.1900	6	0.200	0.165	6	0.000	0.000	+	0.1797		
Habitat Means			2.500	2.041		7.083	6.282	-			0.050	0.041		0.211	0.137	-			
Fisher's		Power	0.059		Power-50%	0.005		P-value	0.3015	Power	0.206		Power-50%	0.010		P-value	0.2810		
Stouffer's		Power	0.003		Power-50%	0.002		P-value	0.5243	Power	0.001		Power-50%	0.002		P-value	0.5271		

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

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

z Only one site pair.

Littorina spp. - abundance (#/m^2)										Littorina spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	755.567	315.738	4	1327.500	1290.913	-	0.5510	6	15.338	6.049	4	13.642	8.330	+	0.8233		
1598C/1598	1	5	200.740	164.464	5	162.000	162.000	+	0.2097	5	5.656	5.199	5	4.900	4.900	+	0.9190		
846C/846	1	4	441.675	337.642	6	599.450	405.325	-	0.5401	4	7.456	4.552	6	8.814	6.202	-	0.8580		
1650C/1650	1	6	73.767	40.205	6	0.000	0.000	+	0.1440	6	4.635	3.036	6	0.000	0.000	+	0.4962		
Habitat Means			367.937	214.512		522.238	464.560	+			8.271	4.709		6.839	4.858	-			
Fisher's		Power	0.003		Power-50%	0.101		P-value	0.1991 y	Power	0.003		Power-50%	0.085		P-value	0.5111		
Stouffer's		Power	---		Power-50%	0.270		P-value	0.0886	Power	0.001		Power-50%	0.256		P-value	0.4164		
506C/506	2	6	1437.783	596.277	4	3474.175	2181.707	-	0.4723	6	22.887	5.351	4	83.813	19.805	-	0.0147		
1598C/1598	2	5	1554.000	397.525	5	1060.000	1005.067	-	0.0433	5	10.426	2.880	5	13.272	8.106	-	0.8797		
846C/846	2	6	1650.767	794.504	6	3489.116	1580.429	-	0.6840	6	15.212	5.981	6	31.965	9.139	-	0.2915		
1650C/1650	2	6	1087.783	234.857	6	16.117	11.625	+	0.0001	6	30.576	9.661	6	0.357	0.347	+	0.0013		
Habitat Means			1432.583	505.791		2009.852	1194.707	+			19.775	5.968		32.352	9.349	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0003 y	Power	---		Power-50%	---		P-value	0.0532 v		
Stouffer's		Power	---		Power-50%	0.000		P-value	0.0034	Power	0.001		Power-50%	0.000		P-value	0.6318		
506C/506	3	6	833.333	358.624	4	635.000	272.106	+	0.8711	6	15.526	6.639	4	14.713	6.420	+	0.7485		
1598C/1598	3	4	1662.500	794.600	5	2647.140	759.977	-	0.4403	4	17.695	13.624	5	28.186	8.359	-	0.3141		
846C/846	3	6	2143.533	438.316	6	3858.884	1225.754	-	0.1231	6	17.595	4.292	6	16.542	4.239	-	0.4479		
1650C/1650	3	6	3481.650	1209.010	6	483.883	415.952	+	0.0091	6	75.288	15.363	6	4.037	2.675	-	0.0137		
Habitat Means			2030.254	700.138		1906.227	668.447	+			31.526	9.980		15.870	5.423	-			
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.1094	Power	---		Power-50%	---		P-value	0.0542		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.6947	Power	0.000		Power-50%	0.000		P-value	0.5506		

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

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

z Only one site pair.

Table D-71. Page 5. December 21, 1994

Table D-71. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. May 1991. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P		
506C/506	1	51.117	25.13	4	1240.000	1203.419	-	0.6302	6	12.549	5.327	4	12.895	7.609	-	0.9549			
1598C/1598	1	12.040	9.17	5	74.000	74.000	+	0.6552	5	4.780	4.491	5	3.656	3.656	+	0.8508			
846C/846	1	0.000	5.17	6	349.450	242.159	-	0.9195	4	1.786	1.295	6	5.904	3.987	-	0.5012			
1650C/1650	1	8.283	4.17	6	0.000	0.000	+	0.1432	6	4.545	3.052	6	0.000	0.000	+	0.4074			
Habitat Means		25.360	10.13		415.863	379.895				5.915	3.541		5.614	3.813					
Fisher's		Power	0.017		Power-50%	0.294		P-value 0.3024 y	Power	0.007		Power-50%	0.245		P-value 0.5620				
Stouffer's		Power	0.033		Power-50%	0.417		P-value 0.2297	Power	0.013		Power-50%	0.376		P-value 0.4247				
506C/506	2	77.783	32.13	4	3265.000	2128.742	-	0.2064	6	16.640	3.888	4	79.318	20.402	-	0.2060			
1598C/1598	2	35.600	13.13	5	382.000	329.764	-	0.3043	5	4.908	2.042	5	10.684	5.564	-	0.5761			
846C/846	2	48.217	23.13	6	783.333	333.193	-	0.2635	6	5.884	2.913	6	15.111	5.475	-	0.0662			
1650C/1650	2	76.667	17.13	6	14.450	10.100	+	0.0001	6	25.348	8.602	6	0.354	0.343	-	0.0001			
Habitat Means		57.067	21.13		1111.196	700.450				13.195	4.361		26.367	7.946					
Fisher's		Power	0.004		Power-50%	0.000		P-value 0.1358x	Power	---		Power-50%	---		P-value 0.0857x				
Stouffer's		Power	0.001		Power-50%	0.000		P-value 0.3721	Power	0.001		Power-50%	0.000		P-value 0.4645				
506C/506	3	25.000	10.13	4	287.500	113.238	-	0.8279	6	5.457	2.580	4	7.286	4.096	-	0.7167			
1598C/1598	3	29.000	16.15	5	973.720	338.855	-	0.0588	4	6.589	6.388	5	20.432	7.450	-	0.1209			
846C/846	3	35.883	9.10	6	153.883	85.107	-	0.6547	6	4.270	1.258	6	2.586	1.591	+	0.1198			
1650C/1650	3	122.217	40.13	6	405.550	341.780	-	0.0222	6	53.100	13.067	6	3.712	2.402	+	0.0170			
Habitat Means		43.025	19.13		455.163	219.745				17.354	5.823		8.509	3.885					
Fisher's		Power	0.000		Power-50%	0.000		P-value 0.1357x	Power	---		Power-50%	---		P-value 0.0399				
Stouffer's		Power	0.000		Power-50%	0.000		P-value 0.8601	Power	0.000		Power-50%	0.000		P-value 0.6666				

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

Table D-71. Page 11. December 21, 1994

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
site Pair	MVD	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P		
506C/506	1	34.450	7.16	4	87.500	87.500	+	0.0982		6	2.788	1.070	4	0.748	0.748	+	0.0504		
1598C/1598	1	18.700	7.68	5	88.000	88.000	+	0.1706		5	0.876	0.709	5	1.244	1.244	-	0.1541		
846C/846	1	31.675	29.24	6	250.000	163.428	+	0.4071		4	5.669	4.250	6	2.909	2.255	+	0.3209		
1650C/1650	1	5.483	1.87	6	0.000	0.000	-	0.5037		6	0.090	0.079	6	0.000	0.000	+	0.3897		
Habitat Means		32.577	10.96		106.375	84.732	-				2.356	1.527		1.225	1.062	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0312		Power	---		Power-50%	---	P-value	0.0707			
Stouffer's		Power	---		Power-50%	0.265	P-value	0.0471		Power	0.002		Power-50%	0.269	P-value	0.7977			
506C/506	2	60.000	29.46	4	209.175	53.192	+	0.7055		6	6.247	2.493	4	4.495	1.281	+	0.9939		
1598C/1598	2	178.400	33.01	5	678.000	675.503	+	0.0329		5	5.517	1.591	5	2.588	2.583	-	0.0161		
846C/846	2	122.550	65.16	6	2705.783	1410.850	-	0.6667		6	9.328	3.499	6	16.854	7.675	-	0.4303		
1650C/1650	2	31.117	10.24	6	1.667	1.667	+	0.0001		6	5.228	1.678	6	0.003	0.003	-	0.0001		
Habitat Means		85.517	35.49		898.656	535.303	+				6.580	2.315		5.985	2.886	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0001 y		Power	---		Power-50%	---	P-value	0.0001			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0025		Power	---		Power-50%	---	P-value	0.0015			
506C/506	3	88.333	27.75	4	347.500	185.084	+	0.6940		6	10.069	4.274	4	7.427	3.829	+	0.6642		
1598C/1598	3	143.500	70.81	5	1673.420	545.654	-	0.2696		4	11.107	7.322	5	7.734	1.544	+	0.5941		
846C/846	3	187.650	36.63	6	3705.000	1228.933	-	0.6885		6	13.325	3.113	6	13.956	3.454	-	0.9075		
1650C/1650	3	229.433	85.32	6	78.333	74.405	+	0.0001		6	22.188	5.748	6	0.325	0.319	-	0.0003		
Habitat Means		157.229	53.80		1451.063	508.519	+				14.172	5.114		7.361	2.287	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0033		Power	---		Power-50%	---	P-value	0.0028			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.5759		Power	---		Power-50%	---	P-value	0.0897			

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

Table D-71. Page 12. December 21, 1994

Table D-71. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. May 1991. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	516.117	200.438	4	1540.000	1530.016	-	0.3942	6	142.630	70.502	4	290.880	290.354	-	0.1927		
1598C/1598	1	5	515.020	425.870	5	142.000	142.000	+	0.1575	5	48.452	43.253	5	142.008	142.008	-	0.1616		
846C/846	1	4	335.850	216.339	6	253.900	200.502	+	0.6421	4	14.902	10.361	6	8.965	6.314	+	0.5838		
1650C/1650	1	6	5.000	5.000	6	0.000	0.000	+	0.3632	6	0.778	0.778	6	0.000	0.000	+	0.6152		
Habitat Means			342.997	211.912		483.975	468.130	+			51.691	31.224		110.463	109.669	-			
Fisher's	Power		0.011		Power-50%	0.181	P-value	0.1903	y	Power	0.030		Power-50%	0.103	P-value	0.1941			
Stouffer's	Power		---		Power-50%	0.307	P-value	0.0485		Power	0.002		Power-50%	0.226	P-value	0.1502			
506C/506	2	6	392.217	82.584	4	2855.825	1465.327	-	0.2602	6	108.678	47.833	4	798.346	252.684	-	0.0118		
1598C/1598	2	5	632.800	196.829	5	206.000	201.037	-	0.0050	5	376.960	205.559	5	189.438	189.393	-	0.4665		
846C/846	2	6	1012.883	640.246	6	651.450	205.023	+	0.7162	6	103.972	55.906	6	343.890	222.439	-	0.3092		
1650C/1650	2	6	1140.550	615.427	6	5.000	5.000	-	0.0006	6	322.483	249.511	6	3.128	3.128	-	0.1783		
Habitat Means			794.613	383.772		929.569	469.097	-			228.023	139.702		333.701	166.911	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0002	y	Power	---		Power-50%	---	P-value	0.0649			
Stouffer's	Power		---		Power-50%	0.001	P-value	0.0002		Power	0.279		Power-50%	0.000	P-value	0.7613			
506C/506	3	6	1492.217	402.188	4	3564.175	2486.511	-	0.7580	6	171.513	71.224	4	437.988	200.203	-	0.6334		
1598C/1598	3	4	506.500	261.417	5	382.280	148.745	-	0.7832	4	24.259	16.078	5	67.084	32.485	-	0.0629		
846C/846	3	6	1336.667	234.873	6	402.217	157.975	-	0.0609	6	208.842	52.824	6	154.041	120.718	-	0.3587		
1650C/1650	3	6	2129.433	674.362	6	48.333	48.333	-	0.0001	6	244.143	125.564	6	4.085	4.085	-	0.0001		
Habitat Means			1366.204	393.210		1099.251	710.391	-			162.189	66.423		165.800	89.373	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0002		Power	---		Power-50%	---	P-value	0.0022	xy		
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0432		Power	0.000		Power-50%	0.000	P-value	0.7038			

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	16.667	10.541	4	0.000	0.000	+	0.1747	6	0.012	0.007	4	0.000	0.000	+	0.1751		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			4.167	2.635		0.000	0.000	-			0.003	0.002		0.000	0.000	+			
Fisher's	Power		0.265		Power-50%	0.044	P-value	0.3394		Power	0.301		Power-50%	0.086	P-value	0.3398			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.4973		Power	0.000		Power-50%	0.052	P-value	0.4973			
506C/506	2	6	37.217	25.968	4	31.675	25.119	+	0.7492	6	0.021	0.017	4	0.000	0.000	+	0.2593		
1598C/1598	2	5	8.000	8.000	5	2.000	2.000	+	0.7736	5	0.016	0.016	5	0.000	0.000	+	0.4164		
846C/846	2	6	40.000	32.660	6	6.667	6.667	+	0.4609	6	0.052	0.039	6	0.000	0.000	+	0.1948		
1650C/1650	2	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.010	0.010	6	0.000	0.000	+	0.3632		
Habitat Means			21.721	17.074		10.086	8.447	+			0.025	0.021		0.000	0.000	+			
Fisher's	Power		0.601		Power-50%	0.349	P-value	0.2505		Power	---		Power-50%	---	P-value	0.0537			
Stouffer's	Power		0.652		Power-50%	0.445	P-value	0.2442		Power	---		Power-50%	---	P-value	0.0902			
506C/506	3	6	737.217	266.765	4	155.825	81.043	+	0.2099	6	0.734	0.276	4	0.186	0.094	+	0.1545		
1598C/1598	3	4	152.500	117.002	5	4.000	4.000	+	0.0382	4	0.127	0.095	5	0.004	0.004	+	0.0682		
846C/846	3	6	203.683	78.170	6	1402.783	1400.784	-	0.0185	6	0.215	0.095	6	1.377	1.369	-	0.0993		
1650C/1650	3	6	122.783	36.832	6	0.000	0.000	+	0.0014	6	0.078	0.037	6	0.000	0.000	+	0.0278		
Habitat Means			304.046	124.692		390.652	371.457	+			0.289	0.126		0.392	0.367	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0007	xy	Power	---		Power-50%	---	P-value	0.0085	xy		
Stouffer's	Power		---		Power-50%	0.002	P-value	0.0197		Power	---		Power-50%	---	P-value	0.0373			

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

Table D-71. Page 13. December 21, 1994

Table D-71. Page 14. December 21, 1994

Table D-71. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. May 1991. (Continued.)

Pagurus spp. - abundance (#/m^2)										Pagurus spp. - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	1.667	1.667	4	0.000	0.000	+	0.3632	6	0.012	0.012	4	0.000	0.000	+	0.3632
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	1	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.417	0.417		0.000	0.000	+			0.003	0.003		0.000	0.000	+	
Fisher's	Power		---		Power-50%	---		P-value	0.4765	Power	---		Power-50%	---		P-value	0.4765
Stouffer's	Power		---		Power-50%	---		P-value	0.4982	Power	---		Power-50%	---		P-value	0.4982
506C/506	2	6	25.000	25.000	4	5.000	5.000	-	0.9519	6	0.583	0.583	4	0.070	0.070	+	0.9812
1598C/1598	2	5	0.000	0.000	5	2.000	2.000	-	0.3739	5	0.000	0.000	5	0.010	0.010	-	0.3739
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			6.250	6.250		1.750	1.750	-			0.146	0.146		0.020	0.020	-	
Fisher's	Power		---		Power-50%	---		P-value	0.4922 y	Power	---		Power-50%	---		P-value	0.4863 y
Stouffer's	Power		---		Power-50%	---		P-value	0.2042	Power	---		Power-50%	---		P-value	0.2042
506C/506	3	6	0.000	0.000	4	157.500	66.880	-	0.0598	6	0.000	0.000	4	2.273	1.180	-	0.0626
1598C/1598	3	4	17.500	17.500	5	2.000	2.000	+	0.6050	4	0.060	0.060	5	0.060	0.060	-	0.9002
846C/846	3	6	59.550	35.656	6	0.000	0.000	-	0.0792	6	0.359	0.230	6	0.000	0.000	+	0.1601
1650C/1650	3	6	78.883	59.134	6	0.000	0.000	-	0.0840	6	1.817	1.638	6	0.000	0.000	+	0.0866
Habitat Means			38.983	28.073		39.875	17.220	-			0.559	0.482		0.583	0.310	+	
Fisher's	Power		---		Power-50%	---		P-value	0.0545xy	Power	0.021		Power-50%	0.027		P-value	0.1122xy
Stouffer's	Power		---		Power-50%	---	0.345	P-value	0.0646	Power	0.296		Power-50%	0.102		P-value	0.1913

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

Table D-71. Page 15. December 21, 1994

Nucella spp. - abundance (#/m^2)										Nucella spp. - biomass (g/m^2)							
site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	1	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---		P-value	0.6980	Power	---		Power-50%	---		P-value	0.6980
Stouffer's	Power		---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
506C/506	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---		P-value	0.6980	Power	---		Power-50%	---		P-value	0.6980
Stouffer's	Power		---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
506C/506	3	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
1598C/1598	3	4	5.000	5.000	5	0.000	0.000	+	0.3910	4	1.960	1.960	5	0.000	0.000	+	0.3910
846C/846	3	6	0.000	0.000	6	6.117	4.429	-	0.1816	6	0.000	0.000	6	2.667	2.651	-	0.2103
1650C/1650	3	6	3.333	2.108	6	0.000	0.000	+	0.1747	6	4.377	2.877	6	0.000	0.000	+	0.1749
Habitat Means			2.083	1.777		1.529	1.107	+			1.584	1.209		0.667	0.663	+	
Fisher's	Power		0.529		Power-50%	0.508		P-value	0.2855	Power	0.004		Power-50%	0.397		P-value	0.2833
Stouffer's	Power		0.060		Power-50%	0.509		P-value	0.2241	Power	0.002		Power-50%	0.401		P-value	0.2174

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

Table D-71. Page 16. December 21, 1994

Table D-71. Invertebrate Abundance and Biomass. Prince William Sound. Coarse Textured. May 1991. (Continued.)

Nucella lima - abundance (#/m^2)										Nucella lima - biomass (g/m^2)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000	
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000	
846C/846	1	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000	
1650C/1650	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000
506C/506	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000	
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000	
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
1650C/1650	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000
506C/506	3	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000	
1598C/1598	3	4	5.000	5.000	5	0.000	0.000	+	0.3910	4	1.960	1.960	5	0.000	0.000	-	0.3910	
846C/846	3	6	0.000	0.000	6	4.450	4.450	-	0.3632	6	0.000	0.000	6	2.653	2.653	-	0.3632	
1650C/1650	3	6	3.333	2.108	6	0.000	0.000	+	0.1747	6	4.377	2.877	6	0.000	0.000	-	0.1749	
Habitat Means			2.083	1.777		1.113	1.113	+			1.584	1.209		0.663	0.663	-		
Fisher's	Power		0.526		Power-50%	0.510		P-value	0.2702	Power	0.649		Power-50%	0.415		P-value	0.2703	
Stouffer's	Power		0.215		Power-50%	0.496		P-value	0.1905	Power	0.098		Power-50%	0.414		P-value	0.1905	

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

Table D-71. Page 17. December 21, 1994

Nucella lamellosa - abundance (#/m^2)										Nucella lamellosa - biomass (g/m^2)									
site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	1	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
506C/506	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
506C/506	3	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	3	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000		
846C/846	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1650C/1650	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	

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

Table D-71. Page 18. December 21, 1994

Table D-71. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, May 1991. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	20.000	16.330	4	0.000	0.000	+	0.5733	6	0.150	0.100	4	0.000	0.000	+	0.1752		
1598C/1598	1	5	0.000	0.000	5	4.000	4.000	-	0.9083	5	0.000	0.000	5	0.006	0.006	-	0.3739		
846C/846	1	4	0.000	0.000	6	48.883	34.016	-	0.1735	4	0.000	0.000	6	0.587	0.470	-	0.1633		
1650C/1650	1	6	8.667	5.696	6	53.333	43.552	-	0.1647	6	0.103	0.066	6	1.236	1.183	-	0.8050		
Habitat Means			7.167	5.507		26.554	20.392	-			0.063	0.042		0.457	0.415	-			
Fisher's	Power		0.641		Power-50%	0.080	P-value	0.1452		Power	0.057		Power-50%	0.338	P-value	0.2401			
Stouffer's	Power		0.306		Power-50%	0.091	P-value	0.2070		Power	0.591		Power-50%	0.350	P-value	0.1030			
506C/506	2	6	95.000	93.014	4	470.825	306.361	-	0.0647	6	0.020	0.020	4	0.143	0.061	-	0.0902		
1598C/1598	2	5	25.460	13.776	5	283.420	283.420	-	0.6656	5	0.047	0.030	5	0.206	0.206	-	0.7266		
846C/846	2	6	21.667	21.667	6	69.333	69.333	-	0.8901	6	0.025	0.025	6	2.000	2.000	-	0.6408		
1650C/1650	2	6	65.000	50.712	6	0.000	0.000	+	0.2311	6	0.440	0.394	6	0.000	0.000	+	0.1622		
Habitat Means			51.782	44.792		205.895	164.779	-			0.133	0.117		0.587	0.567	-			
Fisher's	Power		0.090		Power-50%	0.205	P-value	0.2058		Power	0.093		Power-50%	0.076	P-value	0.2212			
Stouffer's	Power		0.030		Power-50%	0.322	P-value	0.4371		Power	0.013		Power-50%	0.189	P-value	0.4512			
506C/506	3	6	253.883	220.996	4	1555.000	1278.844	-	0.1668	6	0.162	0.113	4	5.142	1.948	-	0.0419		
1598C/1598	3	4	340.000	317.096	5	117.720	62.376	+	0.9135	4	0.220	0.128	5	0.372	0.290	-	0.8853		
846C/846	3	6	314.000	260.438	6	201.667	110.375	+	0.7503	6	0.901	0.870	6	0.120	0.075	-	0.8208		
1650C/1650	3	6	120.550	63.861	6	35.550	35.550	+	0.1041	6	1.477	1.053	6	0.018	0.018	-	0.0625		
Habitat Means			257.108	215.598		477.484	371.786	+			0.690	0.541		1.413	0.583	-			
Fisher's	Power		0.005		Power-50%	0.097	P-value	0.2932 y		Power	0.051		Power-50%	0.045	P-value	0.2329 x			
Stouffer's	Power		0.002		Power-50%	0.259	P-value	0.2823		Power	0.091		Power-50%	0.207	P-value	0.6444			

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

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

z Only one site pair.

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Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
1598C/1598	1	5	74.660	74.660	5	2.000	2.000	+	0.5961	5	0.043	0.043	5	0.002	0.002	+	0.6272		
846C/846	1	4	0.000	0.000	6	26.650	11.918	-	0.0756	4	0.000	0.000	6	0.062	0.062	-	0.2967		
1650C/1650	1	6	10.667	10.667	6	142.217	142.217	-	0.7522	6	0.000	0.000	6	0.062	0.062	-	0.3950		
Habitat Means			21.332	21.332		42.717	39.034	-			0.011	0.011		0.032	0.032	-			
Fisher's	Power		0.920		Power-50%	---	P-value	0.2254		Power	0.015		Power-50%	---	P-value	0.3258			
Stouffer's	Power		0.347		Power-50%	---	P-value	0.4704		Power	0.121		Power-50%	---	P-value	0.4829			
506C/506	2	6	3.333	3.333	4	2.500	2.500	-	0.9103	6	0.093	0.093	4	0.018	0.018	+	0.9936		
1598C/1598	2	5	0.000	0.000	5	18.000	18.000	-	0.3739	5	0.000	0.000	5	0.024	0.024	-	0.4650		
846C/846	2	6	15.000	13.102	6	15.550	9.983	-	0.8937	6	0.267	0.267	6	0.018	0.018	+	0.7069		
1650C/1650	2	6	5.000	3.416	6	0.000	0.000	+	0.1784	6	0.023	0.015	6	0.000	0.000	+	0.2397		
Habitat Means			5.833	4.963		9.012	7.621	+			0.096	0.094		0.015	0.015	+			
Fisher's	Power		0.108		Power-50%	0.205	P-value	0.4329 y		Power	0.008		Power-50%	0.005	P-value	0.4093			
Stouffer's	Power		0.018		Power-50%	0.306	P-value	0.7042		Power	0.000		Power-50%	0.027	P-value	0.6142			
506C/506	3	6	93.883	93.883	4	17.500	10.308	+	0.6503	6	0.507	0.507	4	0.382	0.266	+	0.4170		
1598C/1598	3	4	100.000	75.719	5	6.580	4.516	+	0.3819	4	0.055	0.046	5	0.013	0.009	-	0.6140		
846C/846	3	6	447.333	198.663	6	107.767	44.110	+	0.9845	6	5.853	2.765	6	0.910	0.449	+	0.4773		
1650C/1650	3	6	85.000	69.606	6	0.000	0.000	+	0.0488	6	2.288	2.260	6	0.000	0.000	+	0.0632		
Habitat Means			181.554	109.468		32.962	14.734	+			2.176	1.395		0.326	0.181	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0719		Power	---		Power-50%	---	P-value	0.0541			
Stouffer's	Power		---		Power-50%	0.510	P-value	0.0970		Power	0.312		Power-50%	0.437	P-value	0.1314			

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

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

z Only one site pair.

Table D-71. Page 20. December 21, 1994

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

Table D-71. Page 19. December 21, 1994

Table D-71. Page 20. December 21, 1994

Table D-71. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, May 1991. (Continued.)

Site Pair	MVD	Errant polychaetes - abundance (#/m ²)								Errant polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	1	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
506C/506	2	6	135.000	133.010	4	88.350	69.798	+	0.6167	6	0.187	0.187	4	0.032	0.026	+	0.6940
1598C/1598	2	5	16.000	16.000	5	0.000	0.000	+	0.3739	5	0.008	0.008	5	0.000	0.000	+	0.3739
846C/846	2	6	0.000	0.000	6	26.667	26.667	-	0.3632	6	0.000	0.000	6	0.018	0.018	-	0.3632
1650C/1650	2	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			38.167	37.669		29.171	24.533	+			0.049	0.049		0.013	0.011	+	
Fisher's		Power	0.015		Power-50%	0.024	P-value	0.4844		Power	0.004		Power-50%	0.001	P-value	0.5091	
Stouffer's		Power	0.003		Power-50%	0.070	P-value	0.2815		Power	0.000		Power-50%	0.020	P-value	0.2816	
506C/506	3	6	241.100	135.995	4	70.000	60.415	-	0.5154	6	0.243	0.147	4	0.095	0.088	-	0.6751
1598C/1598	3	4	115.500	51.771	5	86.860	86.860	-	0.0750	4	0.325	0.125	5	0.027	0.027	-	0.0656
846C/846	3	6	41.550	16.831	6	523.883	300.743	-	0.4508	6	1.508	1.006	6	13.032	9.403	-	0.5253
1650C/1650	3	6	73.333	35.189	6	0.000	0.000	-	0.0007	6	0.619	0.532	6	0.000	0.000	-	0.0089
Habitat Means			117.871	59.947		170.186	112.005	-			0.674	0.453		3.289	2.380	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0012	y	Power	---		Power-50%	---	P-value	0.0088	y
Stouffer's		Power	---		Power-50%	0.016	P-value	0.0115		Power	---		Power-50%	---	P-value	0.0148	

Site Pair	MVD	Sedentary polychaetes - abundance (#/m ²)								Sedentary polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
506C/506	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
1598C/1598	1	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
846C/846	1	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000
1650C/1650	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
506C/506	2	6	159.433	139.158	4	0.000	0.000	+	0.0909	6	0.145	0.131	4	0.000	0.000	+	0.1688
1598C/1598	2	5	10.000	7.746	5	0.000	0.000	+	0.1907	5	0.001	0.001	5	0.000	0.000	+	0.1778
846C/846	2	6	13.333	13.333	6	0.000	0.000	-	0.3632	6	0.020	0.020	6	0.000	0.000	-	0.3632
1650C/1650	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			45.692	40.059		0.000	0.000	-			0.042	0.038		0.000	0.000	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0472		Power	---		Power-50%	---	P-value	0.0678	
Stouffer's		Power	---		Power-50%	0.228	P-value	0.0699		Power	---		Power-50%	---	P-value	0.0654	
506C/506	3	6	1338.883	738.958	4	30.000	30.000	+	0.0825	6	2.641	1.186	4	0.487	0.487	+	0.3752
1598C/1598	3	4	134.500	70.311	5	0.000	0.000	+	0.0614	4	0.137	0.085	5	0.000	0.000	+	0.0673
846C/846	3	6	312.217	195.889	6	8.883	8.883	+	0.2154	6	0.408	0.263	6	0.080	0.080	+	0.3465
1650C/1650	3	6	20.000	20.000	6	0.000	0.000	+	0.3632	6	0.003	0.004	6	0.000	0.000	+	0.3632
Habitat Means			451.400	256.290		9.721	9.721	+			0.797	0.385		0.142	0.142	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0066		Power	---		Power-50%	---	P-value	0.0296	
Stouffer's		Power	---		Power-50%	0.198	P-value	0.0104		Power	---		Power-50%	---	P-value	0.0144	

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

Table D-71, Page 21, December 21, 1994

Table D-71. Invertebrate Abundance and Biomass. Prince William Sound, Coarse Textured, May 1991. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	1227.783	708.767	4	10.000	10.000	+	0.0278	6	0.537	0.266	4	0.075	0.075	-	0.0913		
1598C/1598	1	5	1611.500	871.636	5	85.340	47.105	+	0.2411	5	0.829	0.623	5	0.014	0.006	-	0.1183		
846C/846	1	4	791.650	357.649	6	4053.333	1565.073	-	0.8727	4	0.459	0.251	6	0.985	0.367	-	0.6831		
1650C/1650	1	6	646.517	323.774	6	3673.333	2369.252	-	0.6849	6	0.257	0.097	6	2.649	1.628	-	0.6211		
Habitat Means			1069.363	565.457		1955.502	997.858	+			0.521	0.309		0.931	0.519	+			
Fisher's			---			Power-50%	---	P-value	0.0638	Power	---			Power-50%	---	P-value	0.0986		
Stouffer's			Power	0.005		Power-50%	0.110	P-value	0.1688	Power	0.001			Power-50%	0.058	P-value	0.1095		
506C/506	2	6	1955.550	813.871	4	3834.175	2281.763	-	0.3191	6	1.072	0.731	4	3.374	2.122	-	0.9896		
1598C/1598	2	5	2682.800	1891.160	5	1021.140	417.618	+	0.3678	5	1.237	0.875	5	0.473	0.196	-	0.2467		
846C/846	2	6	743.450	272.043	6	6025.333	1348.233	-	0.0031	6	0.267	0.111	6	2.167	0.672	-	0.0152		
1650C/1650	2	6	3186.667	1418.470	6	1757.217	898.998	+	0.3958	6	1.526	0.578	6	1.237	0.730	+	0.5394		
Habitat Means			2142.117	1098.886		3159.466	1236.653	-			1.026	0.574		1.813	0.930	-			
Fisher's			Power	---		Power-50%	---	P-value	0.0257	Power	0.000			Power-50%	0.000	P-value	0.1486		
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.5879	Power	0.000			Power-50%	0.000	P-value	0.7110		
506C/506	3	6	708.900	271.007	4	4333.325	2495.782	-	0.8241	6	0.210	0.134	4	2.412	1.647	-	0.7056		
1598C/1598	3	4	234.000	106.939	5	1390.280	430.172	-	0.0762	4	0.037	0.023	5	0.548	0.247	-	0.1796		
846C/846	3	6	355.233	144.638	6	1943.900	532.471	-	0.0418	6	0.104	0.079	6	0.356	0.159	-	0.2817		
1650C/1650	3	6	2422.767	1770.422	6	180.000	132.162	+	0.0129	6	1.250	0.873	6	0.000	0.000	+	0.3632		
Habitat Means			930.225	573.252		1961.876	897.647	-			0.400	0.277		0.829	0.513	-			
Fisher's			Power	---		Power-50%	---	P-value	0.0416	Power	0.000			Power-50%	0.000	P-value	0.1893		
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0538	Power	---			Power-50%	---	P-value	0.0923		

Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
506C/506	1	6	3459.467	1225.274	4	5382.500	5239.444	-	0.2653	6	194.798	81.368	4	410.763	397.501	-	0.4428		
1598C/1598	1	5	2938.820	1696.407	5	2102.020	2022.661	-	0.1106	5	74.231	61.318	5	239.320	239.298	-	0.0636		
846C/846	1	4	3285.000	1401.613	6	7092.217	3129.396	-	0.5654	4	104.131	61.453	6	70.223	38.880	-	0.2870		
1650C/1650	1	6	923.767	434.039	6	3922.217	2555.650	-	0.8965	6	12.999	8.630	6	3.947	2.674	-	0.3868		
Habitat Means			2651.764	1189.333		4624.739	3236.788	-			96.540	53.192		181.063	169.588	-			
Fisher's			Power	0.019		Power-50%	0.000	P-value	0.4061	Power	0.007			Power-50%	0.000	P-value	0.2222		
Stouffer's			Power	0.132		Power-50%	0.000	P-value	0.9012	Power	0.050			Power-50%	0.000	P-value	0.1102		
506C/506	2	6	5753.300	1817.643	4	11779.200	3933.202	-	0.1090	6	299.901	105.395	4	953.313	233.013	-	0.0463		
1598C/1598	2	5	8001.860	1638.367	5	3844.280	2472.122	+	0.2548	5	650.549	265.011	5	310.396	281.432	+	0.2801		
846C/846	2	6	6023.633	2677.865	6	14043.984	3324.763	-	0.0195	6	234.484	118.809	6	557.595	269.031	-	0.2614		
1650C/1650	2	6	8207.200	2071.696	6	1955.533	921.353	+	0.0646	6	512.326	264.077	6	6.119	4.786	-	0.0823		
Habitat Means			6996.498	2051.393		7905.749	2662.860	-			424.315	188.323		456.856	197.066	-			
Fisher's			Power	---		Power-50%	---	P-value	0.0515	Power	0.000			Power-50%	0.000	P-value	0.1518		
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.8037	Power	0.000			Power-50%	0.000	P-value	0.8657		
506C/506	3	6	7681.600	1416.284	4	11415.000	3536.688	-	0.3262	6	493.072	212.418	4	476.011	210.460	-	0.9950		
1598C/1598	3	4	7382.000	1882.408	5	9742.320	2772.135	-	0.5485	4	85.618	24.414	5	495.421	166.938	-	0.0067		
846C/846	3	6	9363.100	1348.088	6	13228.833	2213.058	-	0.2568	6	464.051	119.646	6	368.255	143.692	-	0.3525		
1650C/1650	3	6	11909.367	4301.905	6	1192.767	762.544	-	0.0030	6	581.781	215.402	6	42.658	29.020	+	0.0211		
Habitat Means			9084.017	2237.171		8894.730	2321.106	-			406.131	142.970		345.586	137.528	-			
Fisher's			Power	0.008		Power-50%	0.000	P-value	0.2431	Power	---			Power-50%	---	P-value	0.0823		
Stouffer's			Power	0.001		Power-50%	0.000	P-value	0.4382	Power	0.000			Power-50%	0.000	P-value	0.9560		

x At least one site pair P-value < 0.050 is opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-71: Page 21, December 21, 1994

Table D-72. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m^2)										Lottidae - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	1.667	1.667	0	--	--		----	6	0.420	0.420	0	--	--		----		
2397C/20809	1	5	22.000	17.436	6	0.000	0.000	+	0.1884	5	4.604	3.893	6	0.000	0.000	+	0.1810		
Habitat Means			11.834	9.552		0.000	0.000	-			2.512	2.157		0.000	0.000	+			
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's	Power		---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	2	3	0.000	0.000	0	--	--		----	3	0.000	0.000	0	--	--		----		
2397C/20809	2	5	24.000	11.662	5	68.000	56.338	-	0.8711	5	2.412	1.496	5	4.804	3.326	-	0.7239		
Habitat Means			12.000	5.831		68.000	56.338	-			1.206	0.748		4.804	3.326	-			
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's	Power		---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	31.667	22.274	3	71.100	48.307	-	0.5237	6	4.957	3.225	3	4.701	2.958	+	0.7075		
Habitat Means			31.667	22.274		71.100	48.307	-			4.957	3.225		4.701	2.958	+			
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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 D-72, Page 1, December 21, 1994

Lottia pelta - abundance (#/m^2)										Lottia Pelta biomass (g/m^2)								
Site Pair	MVD	N	C	SE	N	C	SE	D	P	N	C	SE	N	C	SE	D	P	
P15.1C/P15.1	1	6	0.000	0.000	0	--	--		----	6	0.000	0.000	0	--	--		----	
2397C/20809	1	5	4.000	4.000	6	0.000	0.030	+	0.3739	5	1.120	1.120	6	0.000	0.000	+	0.3739	
Habitat Means			2.000	2.000		0.000	0.030	-			0.560	0.560		0.000	0.000	+		
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z	
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----		
P15.1C/P15.1	2	3	0.000	0.000	0	--	--		----	3	0.000	0.000	0	--	--		----	
2397C/20809	2	5	4.000	2.449	5	10.000	10.000	-	0.8646	5	0.954	0.599	5	1.420	1.420	-	0.6226	
Habitat Means			2.000	1.225		10.000	10.000	-			0.477	0.300		1.420	1.420	-		
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z	
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----		
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----	
2397C/20809	3	6	31.667	22.274	3	0.000	0.000	+	0.0854	6	4.957	3.225	3	0.000	0.000	+	0.0770	
Habitat Means			31.667	22.274		0.000	0.000	+			4.957	3.225		0.000	0.000	+		
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z	
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 D-72, Page 2, December 21, 1994

Table D-72. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1990. (Continued.)

Site Pair	MVD	Tectura persona - abundance (#/m ²)								Tectura persona - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	6	0.000	0.000	0	--	--	----		6	0.000	0.000	0	--	--	----	
2397C/20809	1	5	14.000	11.662	6	0.000	0.000	+	0.1970	5	3.146	2.505	6	0.000	0.000	+	0.1800
Habitat Means			7.000	5.831		0.000	0.000	+			1.573	1.253		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	2	3	0.000	0.000	0	--	--	----		3	0.000	0.000	0	--	--	----	
2397C/20809	2	5	8.000	3.742	5	58.000	58.000	-	0.7489	5	0.434	0.210	5	3.384	3.384	-	0.4612
Habitat Means			4.000	1.871		58.000	58.000	-			0.217	0.105		3.384	3.384	-	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----	
2397C/20809	3	6	0.000	0.000	3	50.000	32.146	-	0.1892	6	0.000	0.000	3	3.727	2.576	-	0.1857
Habitat Means			0.000	0.000		50.000	32.146	-			0.000	0.000		3.727	2.576	-	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	

Site Pair	MVD	Tectura scutum - abundance (#/m ²)								Tectura scutum - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	6	0.000	0.000	0	--	--	----		6	0.000	0.000	0	--	--	----	
2397C/20809	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	2	3	0.000	0.000	0	--	--	----		3	0.000	0.000	0	--	--	----	
2397C/20809	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----	
2397C/20809	3	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z

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

Table D-72, Page 3, December 21, 1994

Table D-72. Invertebrate Abundance and Biomass, Prince William Sound, Estuarine, June 1990. (Continued.)

Balanomorpha - abundance (#/m ²)										Balanomorpha - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	10.000	6.831	0	--	--		----	6	1.183	1.090	0	--	--		----		
2397C/20809	1	5	6926.660	5183.856	6	1846.667	1846.667	+	0.0078	5	351.999	229.809	6	118.372	118.372	-	0.0038		
Habitat Means			3468.330	2595.344		1846.667	1846.667	+			176.591	115.450		118.372	118.372	-			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	2	3	281.100	154.627	0	--	--		----	3	15.126	8.257	0	--	--		----		
2397C/20809	2	5	4172.000	1071.435	5	48.660	25.595	+	0.0009	5	295.822	36.339	5	4.439	3.628	+	0.0165		
Habitat Means			2226.550	613.031		48.660	25.595	+			155.474	22.298		4.439	3.628	+			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	7041.667	3160.207	3	1426.667	1002.486	+	0.7533	6	631.225	281.415	3	53.784	30.209	-	0.7574		
Habitat Means			7041.667	3160.207		1426.667	1002.486	+			631.225	281.415		53.784	30.209	-			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		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 D-72, Page 5, December 21, 1994

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	0.000	0.000	0	--	--		----	6	0.000	0.000	0	--	--		----		
2397C/20809	1	5	6.000	6.000	6	506.667	506.667	-	0.6946	5	0.024	0.024	6	6.928	6.928	-	0.7130		
Habitat Means			3.000	3.000		506.667	506.667	-			0.012	0.012		6.928	6.928	-			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	2	3	0.000	0.000	0	--	--		----	3	0.000	0.000	0	--	--		----		
2397C/20809	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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 D-72, Page 5, December 21, 1994

Table D-72. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1990. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	5.000	5.000	0	--	--		----	6	1.065	1.065	0	--	--		----		
2397C/20809	1	5	94.000	79.536	6	65.000	65.000	+	0.3569	5	11.576	9.540	6	7.438	7.438	+	0.2294		
Habitat Means			49.500	42.268		65.000	65.000				6.321	5.303		7.438	7.438				
Fisher's		Power	---		Power-50%	---		P-value	----	Power	---		Power-50%	---		P-value	----		
Stouffer's		Power	---		Power-50%	---		P-value	----	Power	---		Power-50%	---		P-value	----		
P15.1C/P15.1	2	3	6.667	6.667	0	--	--		----	3	1.360	1.360	0	--	--		----		
2397C/20809	2	5	286.000	245.104	5	4.000	4.000	+	0.1499	5	53.958	38.089	5	0.458	0.458	+	0.1618		
Habitat Means			146.334	125.886		4.000	4.000				27.659	19.725		0.458	0.458				
Fisher's		Power	---		Power-50%	---		P-value	----	Power	---		Power-50%	---		P-value	----		
Stouffer's		Power	---		Power-50%	---		P-value	----	Power	---		Power-50%	---		P-value	----		
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	6.667	4.944	3	6.667	6.667	o	0.9709	6	0.595	0.431	3	0.480	0.480	+	0.9910		
Habitat Means			6.667	4.944		6.667	6.667	o			0.595	0.431		0.480	0.480				
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.

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Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	1.667	1.667	0	--	--		----	6	0.038	0.038	0	--	--		----		
2397C/20809	1	5	5918.660	4440.601	6	1245.000	1245.000	+	0.0068	5	317.793	202.182	6	103.868	103.868	+	0.0037		
Habitat Means			2960.164	2221.134		1245.000	1245.000				158.916	101.110		103.868	103.868				
Fisher's		Power	---		Power-50%	---		P-value	----	Power	---		Power-50%	---		P-value	----		
Stouffer's		Power	---		Power-50%	---		P-value	----	Power	---		Power-50%	---		P-value	----		
P15.1C/P15.1	2	3	116.667	58.973	0	--	--		----	3	10.780	5.469	0	--	--		----		
2397C/20809	2	5	3093.340	1014.147	5	34.000	23.580	+	0.0006	5	229.627	58.801	5	3.960	3.185	+	0.0166		
Habitat Means			1605.004	536.560		34.000	23.580				120.204	32.135		3.960	3.185				
Fisher's		Power	---		Power-50%	---		P-value	----	Power	---		Power-50%	---		P-value	----		
Stouffer's		Power	---		Power-50%	---		P-value	----	Power	---		Power-50%	---		P-value	----		
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	6455.000	2998.190	3	1260.000	842.931	+	0.7638	6	610.460	279.023	3	52.593	29.216	+	0.7615		
Habitat Means			6455.000	2998.190		1260.000	842.931	+			610.460	279.023		52.593	29.216				
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.

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Table D-72, Page 7, December 21, 1994

Table D-72, Page 8, December 21, 1994

Table D-72. Invertebrate Abundance and Biomass. Prince William Sound. Estuarine. June 1990. (Continued.)

Lacuna spp. - abundance (#/m^2)										Lacuna spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	0.000	0.000	0	--	--		----	6	0.000	0.000	0	--	--		----		
2397C/20809	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power		---		Power-50%	---	P-value	----	z	
Stouffer's	Power		---		Power-50%	---	P-value	----		Power		---		Power-50%	---	P-value	----		
P15.1C/P15.1	2	3	0.000	0.000	0	--	--		----	3	0.000	0.000	0	--	--		----		
2397C/20809	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power		---		Power-50%	---	P-value	----	z	
Stouffer's	Power		---		Power-50%	---	P-value	----		Power		---		Power-50%	---	P-value	----		
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	25.000	17.654	3	0.000	0.000	.	0.0909	6	0.170	0.149	3	0.000	0.000	.	0.0978		
Habitat Means			25.000	17.654		0.000	0.000	+			0.170	0.149		0.000	0.000	-			
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power		---		Power-50%	---	P-value	----	z	
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.

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Littorina spp. - abundance (#/m^2)											Littorina spp. - biomass (g/m^2)										
Site Pair	MVD	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P			
P15.1C/P15.1	1	6	55.000	42.564	0	--	--		----		6	5.195	4.189	0	--	--		----			
2397C/20809	1	5	243.340	65.172	6	16.667	16.667	+	0.0007		5	16.921	4.619	6	1.098	1.098	+	0.0009			
Habitat Means			149.170	53.868		16.667	16.667	+				11.058	4.404		1.098	1.098	+				
Fisher's	Power		---		Power-50%	---	P-value	----	z		Power	---		Power-50%	---	P-value	----	z			
Stouffer's	Power		---		Power-50%	---	P-value	----			Power	---		Power-50%	---	P-value	----				
P15.1C/P15.1	2	3	0.000	0.000	0	--	--		----		3	0.000	0.000	0	--	--		----			
2397C/20809	2	5	715.980	264.803	5	67.340	48.108	+	0.0116		5	20.129	6.907	5	5.128	3.260	+	0.0646			
Habitat Means			357.990	132.402		67.340	48.108	+				10.065	3.454		5.128	3.260	+				
Fisher's	Power		---		Power-50%	---	P-value	----	z		Power	---		Power-50%	---	P-value	----	z			
Stouffer's	Power		---		Power-50%	---	P-value	----			Power	---		Power-50%	---	P-value	----				
P15.1C/P15.1	3	0	--	--	0	--	--		----		0	--	--	0	--	--		----			
2397C/20809	3	6	1010.000	525.420	3	202.200	83.950	+	0.9317		6	17.420	10.379	3	15.341	5.204	+	0.3746			
Habitat Means			1010.000	525.420		202.200	83.950	+				17.420	10.379		15.341	5.204	+				
Fisher's	Power		---		Power-50%	---	P-value	----	z		Power	---		Power-50%	---	P-value	----	z			
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.

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Table D-72. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1990. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
2397C/20809	1	5	141.340	58.352	6	8.333	8.333	+	0.0018	5	11.635	4.062	6	0.785	0.785	+	0.0014		
Habitat Means			98.170	50.458		8.333	8.333	+			8.415	4.126		0.785	0.785	+			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	2	3	0.000	0.000	0	--	--	----		3	0.000	0.000	0	--	--	----			
2397C/20809	2	5	309.320	163.270	5	67.340	48.108	+	0.0431	5	13.791	6.148	5	5.128	3.260	+	0.0622		
Habitat Means			154.660	81.635		67.340	48.108	+			6.896	3.074		5.128	3.260	+			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----			
2397C/20809	3	6	143.333	103.237	3	198.867	85.761	-	0.2116	6	6.412	5.094	3	15.174	5.258	-	0.1449		
Habitat Means			143.333	103.237		198.867	85.761	-			6.412	5.094		15.174	5.258	-			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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.

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Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	0.000	0.000	0	--	--	----		6	0.000	0.000	0	--	--	----			
2397C/20809	1	5	102.000	47.159	6	8.333	8.333	-	0.0030	5	5.286	2.880	6	0.313	0.313	+	0.0035		
Habitat Means			51.000	23.580		8.333	8.333	-			2.643	1.440		0.313	0.313	+			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	2	3	0.000	0.000	0	--	--	----		3	0.000	0.000	0	--	--	----			
2397C/20809	2	5	406.660	144.386	5	0.000	0.000	+	0.0001	5	6.339	2.766	5	0.000	0.000	-	0.0001		
Habitat Means			203.330	72.193		0.000	0.000	+			3.170	1.383		0.000	0.000	+			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----			
2397C/20809	3	6	866.667	442.739	3	3.333	3.333	+	0.0699	6	11.008	5.925	3	0.167	0.167	+	0.1218		
Habitat Means			866.667	442.739		3.333	3.333	+			11.008	5.925		0.167	0.167	+			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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.

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Table D-72. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1990. (Continued.)

Site Pair	MVD	Mytilus edulis - abundance (#/m ²)								Mytilus edulis - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	6	0.000	0.000	0	--	--	----		6	0.000	0.000	0	--	--	----	
2397C/20809	1	5	108.000	57.219	6	0.000	0.000	+	0.0737	5	6.197	4.193	6	0.000	0.000	-	0.0725
Habitat Means			54.000	28.610		0.000	0.000				3.099	2.097		0.000	0.000		
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	2	3	63.333	49.103	0	--	--	----		3	0.647	0.430	0	--	--	----	
2397C/20809	2	5	999.340	322.123	5	164.000	136.269	+	0.0221	5	447.353	121.540	5	85.887	84.806	+	0.0426
Habitat Means			531.337	185.613		164.000	136.269	+			224.000	60.985		85.887	84.806		
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----	
2397C/20809	3	6	3311.667	2143.617	3	306.667	133.333	+	0.7159	6	510.212	440.249	3	269.248	131.451	-	0.4861
Habitat Means			3311.667	2143.617		306.667	133.333	+			510.212	440.249		269.248	131.451	-	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
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 D-72, Page 13, December 21, 1994

Site Pair	MVD	Turtonia minuta abundance (#/m ²)								Turtonia minuta - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	6	0.000	0.000	0	--	--	----		6	0.000	0.000	0	--	--	----	
2397C/20809	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	2	3	3.333	3.333	0	--	--	----		3	0.000	0.000	0	--	--	----	
2397C/20809	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			1.667	1.667		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	----	y	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----	
2397C/20809	3	6	43.333	22.755	3	0.000	0.000	+	0.0124	6	0.057	0.037	3	0.000	0.000	+	0.1198
Habitat Means			43.333	22.755		0.000	0.000	+			0.057	0.037		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
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 D-72, Page 14, December 21, 1994

Table D-72. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1990. (Continued.)

Pagurus spp. - abundance (#/m^2)										Pagurus spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	0.000	0.000	0	--	--		----	6	0.000	0.000	0	--	--		----		
2397C/20809	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power		---		Power-50%	---	P-value	----	z	
Stouffer's	Power		---		Power-50%	---	P-value	----		Power		---		Power-50%	---	P-value	----		
P15.1C/P15.1	2	3	0.000	0.000	0	--	--		----	3	0.000	0.000	0	--	--		----		
2397C/20809	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power		---		Power-50%	---	P-value	----	z	
Stouffer's	Power		---		Power-50%	---	P-value	----		Power		---		Power-50%	---	P-value	----		
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	48.333	40.449	3	0.000	0.000	+	0.0465	6	4.882	2.921	3	0.000	0.000	+	0.0274		
Habitat Means			48.333	40.449		0.000	0.000	+			4.882	2.921		0.000	0.000	+			
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power		---		Power-50%	---	P-value	----	z	
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.

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Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	0.000	0.000	0	--	--		----	6	0.000	0.000	0	--	--		----		
2397C/20809	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	2	3	0.000	0.000	0	--	--		----	3	0.000	0.000	0	--	--		----		
2397C/20809	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	21.667	16.003	3	0.000	0.000	+	0.0919	6	7.743	7.182	3	0.000	0.000	+	0.0858		
Habitat Means			21.667	16.003		0.000	0.000	+			7.743	7.182		0.000	0.000	+			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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 D-72, Page 16, December 21, 1994

Table D-72. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1990. (Continued.)

Nucella lima - abundance (#/m^2)										Nucella lima - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
2397C/20809	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	2	3	0.000	0.000	0	--	--		----	3	0.000	0.000	0	--	--		----		
2397C/20809	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	5.000	3.416	3	0.000	0.000	+	0.1784	6	7.650	7.202	3	0.000	0.000	.	0.1814		
Habitat Means			5.000	3.416		0.000	0.000	+			7.650	7.202		0.000	0.000	-			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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.

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Nucella lamellosa abundance {#/m^2}										Nucella lamellosa - biomass {g/m^2}							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	6	0.000	0.000	0	--	--		----	6	0.000	0.000	0	--	--		----
2397C/20809	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's	Power		---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	2	3	0.000	0.000	0	--	--		----	3	0.000	0.000	0	--	--		----
2397C/20809	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's	Power		---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----
2397C/20809	3	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
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 D-72. Page 18. December 21, 1994

Table D-72. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1990. (Continued.)

Site Pair	MVD	Amphipoda - abundance (#/m ²)								Amphipoda - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	6	118.333	98.975	0	--	--	----		6	0.963	0.784	0	--	--	----	
2397C/20809	1	5	116.000	116.000	6	0.000	0.000	+	0.3739	5	0.146	0.146	6	0.000	0.000	+	0.3739
Habitat Means			117.167	107.488		0.000	0.000	+			0.555	0.465		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	2	3	6.667	6.667	0	--	--	----		3	0.013	0.013	0	--	--	----	
2397C/20809	2	5	160.000	160.000	5	93.340	68.028	+	0.6850	5	0.126	0.126	5	2.891	1.775	-	0.3969
Habitat Means			83.334	83.334		93.340	68.028	+			0.070	0.070		2.891	1.775	-	
Fisher's		Power	---		Power-50%	---	P-value	----	yz	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----	
2397C/20809	3	6	80.000	52.789	3	1720.000	1005.021	-	0.0324	6	0.545	0.396	3	7.588	3.869	-	0.0777
Habitat Means			80.000	52.789		1720.000	1005.021	-			0.545	0.396		7.588	3.869	-	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
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.

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Site Pair	MVD	Isopoda - abundance (#/m ²)								Isopoda biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	6	0.000	0.000	0	--	--	----		6	0.000	0.000	0	--	--	----	
2397C/20809	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	2	3	0.000	0.000	0	--	--	----		3	0.000	0.000	0	--	--	----	
2397C/20809	2	5	28.660	17.748	5	0.000	0.000	+	0.1780	5	0.381	0.251	5	0.000	0.000	-	0.1784
Habitat Means			14.330	8.874		0.000	0.000	-			0.191	0.126		0.000	0.000	-	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----	
2397C/20809	3	6	11.667	7.923	3	70.000	51.316	-	0.3277	6	0.172	0.099	3	3.843	3.060	-	0.3405
Habitat Means			11.667	7.923		70.000	51.316	-			0.172	0.099		3.843	3.060	-	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
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 D-72, Page 20. December 21, 1994

Table D-72. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1990. (Continued.)

Errant polychaetes - abundance (#/m^2)										Errant polychaetes - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	0.000	0.000	0	--	--		----	6	0.000	0.000	0	--	--		----		
2397C/20809	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power	---			Power-50%	---	P-value	----	z	Power	---			Power-50%	---	P-value	----	z	
Stouffer's	Power	---			Power-50%	---	P-value	----		Power	---			Power-50%	---	P-value	----		
P15.1C/P15.1	2	3	6.667	6.667	0	--	--		----	3	0.010	0.010	0	--	--		----		
2397C/20809	2	5	14.660	10.407	5	0.000	0.000	+	0.1830	5	0.422	0.376	5	0.000	0.000	+	0.1869		
Habitat Means			10.664	8.537		0.000	0.000	+			0.216	0.193		0.000	0.000	+			
Fisher's	Power	---			Power-50%	---	P-value	----	z	Power	---			Power-50%	---	P-value	----	z	
Stouffer's	Power	---			Power-50%	---	P-value	----		Power	---			Power-50%	---	P-value	----		
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	85.000	44.403	3	3.333	3.333	+	0.1969	6	0.500	0.352	3	0.050	0.050	+	0.3805		
Habitat Means			85.000	44.403		3.333	3.333	+			0.500	0.352		0.050	0.050	+			
Fisher's	Power	---			Power-50%	---	P-value	----	z	Power	---			Power-50%	---	P-value	----	z	
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 D-72, Page 21, December 21, 1994

Sedentary polychaetes										Sedentary polychaetes - biomass (g/m ²)									
site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	0.000	0.000	0	--	--		----	6	0.000	0.000	0	--	--		----		
2397C/20809	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	----	Power		---		Power-50%		---	P-value	----	
Stouffer's	Power		---		Power-50%		---	P-value	----	Power		---		Power-50%		---	P-value	----	
P15.1C/P15.1	2	3	6.667	3.333	0	--	--		----	3	0.014	0.013	0	--	--		----		
2397C/20809	2	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			3.334	1.667		0.000	0.000	o			0.007	0.007		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	----	Power		---		Power-50%		---	P-value	----	
Stouffer's	Power		---		Power-50%		---	P-value	----	Power		---		Power-50%		---	P-value	----	
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	13.333	7.601	3	0.000	0.000	-	0.0329	6	0.002	0.002	3	0.000	0.000	+	0.1652		
Habitat Means			13.333	7.601		0.000	0.000	-			0.002	0.002		0.000	0.000	+			
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 D-72, Page 22, December 21, 1994

Table D-72. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1990. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	2031.117	849.920	0	--	--		----	6	0.700	0.280	0	--	--		----		
2397C/20809	1	5	725.340	391.974	6	1101.117	712.449	-	0.8499	5	0.471	0.341	6	0.588	0.410	-	0.6346		
Habitat Means			1378.229	620.947		1101.117	712.449	-			0.586	0.311		0.588	0.410	-			
Fisher's	Power	---		Power-50%	---	P-value	----	y ^z		Power	---		Power-50%	---	P-value	----	z		
Stouffer's	Power	---		Power-50%	---	P-value	----			Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	2	3	1184.433	821.173	0	--	--		----	3	0.290	0.187	0	--	--		----		
2397C/20809	2	5	226.000	141.690	5	1333.340	719.016	-	0.0592	5	0.043	0.043	5	1.061	0.409	-	0.0014		
Habitat Means			705.217	481.432		1333.340	719.016	-			0.167	0.115		1.061	0.409	-			
Fisher's	Power	---		Power-50%	---	P-value	----	z		Power	---		Power-50%	---	P-value	----	z		
Stouffer's	Power	---		Power-50%	---	P-value	----			Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	11.667	6.540	3	1593.333	971.122	-	0.0048	6	0.000	0.000	3	0.882	0.484	-	0.0155		
Habitat Means			11.667	6.540		1593.333	971.122	-			0.000	0.000		0.882	0.484	-			
Fisher's	Power	---		Power-50%	---	P-value	----	z		Power	---		Power-50%	---	P-value	----	z		
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.

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Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	6	2597.233	1140.964	0	--	--		----	6	15.833	10.821	0	--	--		----		
2397C/20809	1	5	8307.340	4939.655	6	3093.884	1744.570	+	0.1989	5	380.440	232.839	6	120.102	119.344	+	0.0181		
Habitat Means			5452.287	3040.310		3093.884	1744.570	+			198.137	121.830		120.102	119.344	+			
Fisher's	Power	---		Power-50%	---	P-value	----	z		Power	---		Power-50%	---	P-value	----	z		
Stouffer's	Power	---		Power-50%	---	P-value	----			Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	2	3	1716.633	1022.389	0	--	--		----	3	45.211	18.294	0	--	--		----		
2397C/20809	2	5	6629.280	1554.290	5	1894.000	1015.314	-	0.0210	5	780.048	129.500	5	104.275	93.243	+	0.0263		
Habitat Means			4172.957	1288.340		1894.000	1015.314	-			412.630	73.897		104.275	93.243	+			
Fisher's	Power	---		Power-50%	---	P-value	----	z		Power	---		Power-50%	---	P-value	----	z		
Stouffer's	Power	---		Power-50%	---	P-value	----			Power	---		Power-50%	---	P-value	----			
P15.1C/P15.1	3	0	--	--	0	--	--		----	0	--	--	0	--	--		----		
2397C/20809	3	6	13566.667	5587.576	3	5602.167	2247.506	+	0.7870	6	1209.130	719.510	3	356.411	111.166	+	0.7954		
Habitat Means			13566.667	5587.576		5602.167	2247.506	+			1209.130	719.510		356.411	111.166	+			
Fisher's	Power	---		Power-50%	---	P-value	----	z		Power	---		Power-50%	---	P-value	----	z		
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.

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cal differences between means of oiled and control site pairs. MVD = meter vertical drop; N = sample size; C = control mean; O = oiled mean; SE = standard error; D =
ence; + = control > oiled; - = control < oiled; o = control = oiled; P = probability value; Power = power to detect given difference; Power-50% = power to detect a
hes = insufficient data.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000		
2397C/20809	1	6	35.883	13.298	6	25.000	25.000	+	0.6446	6	6.781	4.254	6	2.573	2.573	+	0.3164		
Habitat Means			17.942	6.649		12.500	12.500	+			3.391	2.127		1.287	1.287	-			
Fisher's			Power	0.000		Power-50%	0.045	P-value	0.4553		Power	0.000		Power-50%	0.008	P-value	0.2798		
Stouffer's			Power	0.000		Power-50%	0.013	P-value	0.3723		Power	0.000		Power-50%	0.003	P-value	0.2393		
P15.1C/P15.1	2	3	0.000	0.000	5	10.660	10.660	-	0.6067	3	0.000	0.000	5	0.139	0.139	-	0.9586		
2397C/20809	2	5	35.320	15.070	6	29.450	12.574	-	0.7318	5	4.800	2.747	6	2.985	1.189	+	0.4173		
Habitat Means			17.660	7.535		20.055	11.617	-			2.400	1.374		1.562	0.664	+			
Fisher's			Power	0.451		Power-50%	0.003	P-value	0.5094		Power	0.000		Power-50%	0.003	P-value	0.3498		
Stouffer's			Power	0.493		Power-50%	0.001	P-value	0.4516		Power	0.000		Power-50%	0.000	P-value	0.2957		
P15.1C/P15.1	3	0	--	--	2	80.000	80.000	----		0	--	--	2	1.866	1.866	----			
2397C/20809	3	5	57.880	30.461	5	63.340	37.167	-	0.9109	5	5.018	2.781	5	7.091	4.599	-	0.9675		
Habitat Means			57.880	30.461		71.670	58.584	-			5.018	2.781		4.479	3.233	-			
Fisher's			Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	yz	
Stouffer's			Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	yz	

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

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Lottia pelta abundance (#/m ²)										Lottia pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000		
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's			Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966		
Stouffer's			Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000		
P15.1C/P15.1	2	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000		
2397C/20809	2	5	6.000	4.000	6	1.667	1.667	-	0.3837	5	0.764	0.482	6	0.345	0.345	-	0.4451		
Habitat Means			3.000	2.000		0.834	0.834	-			0.382	0.241		0.173	0.173	-			
Fisher's			Power	0.016		Power-50%	0.145	P-value	0.3208		Power	0.002		Power-50%	0.205	P-value	0.3556		
Stouffer's			Power	0.010		Power-50%	0.091	P-value	0.2690		Power	0.000		Power-50%	0.153	P-value	0.2947		
P15.1C/P15.1	3	0	--	--	2	0.000	0.000	----		0	--	--	2	0.000	0.000	----			
2397C/20809	3	5	19.340	11.275	5	6.000	6.000	+	0.2745	5	2.205	1.445	5	1.990	1.990	-	0.3131		
Habitat Means			19.340	11.275		3.000	3.000	+			2.205	1.445		0.995	0.995	+			
Fisher's			Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	z	
Stouffer's			Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	z	

Table D-73. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, August 1990. (Continued.)

Site Pair	MVD	Tectura persona - abundance (#/m ²)								Tectura persona - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000
2397C/20809	1	6	18.333	10.462	6	23.333	23.333	-	0.8140	6	2.412	1.094	6	2.458	2.458	-	0.9833
Habitat Means			9.166	5.231		11.667	11.667	-			1.206	0.547		1.229	1.229	-	
Fisher's		Power	0.309		Power-50%	0.048	P-value	0.5275		Power	0.789		Power-50%	0.220	P-value	0.5908	
Stouffer's		Power	0.207		Power-50%	0.020	P-value	0.4340		Power	0.739		Power-50%	0.107	P-value	0.4941	
P15.1C/P15.1	2	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000
2397C/20809	2	5	10.660	10.660	6	0.000	0.000	-	0.3739	5	1.013	1.013	6	0.000	0.000	-	0.3739
Habitat Means			5.330	5.330		0.000	0.000	+			0.507	0.507		0.000	0.000	-	
Fisher's		Power	---		Power-50%	---	P-value	0.3150		Power	---		Power-50%	---	P-value	0.3150	
Stouffer's		Power	---		Power-50%	---	P-value	0.2648		Power	---		Power-50%	---	P-value	0.2648	
P15.1C/P15.1	3	0	--	--	2	0.000	0.000	----	----	0	--	--	2	0.000	0.000	----	----
2397C/20809	3	5	0.000	0.000	5	26.000	26.000	-	0.3739	5	0.000	0.000	5	2.312	2.312	-	0.3739
Habitat Means			0.000	0.000		13.000	13.000	-			0.000	0.000		1.156	1.156	-	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
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 D-73. Page 3. December 21, 1994

Site Pair	MVD	Tectura scutum abundance (#/m ²)								Tectura scutum - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
P15.1C/P15.1	2	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000
2397C/20809	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
P15.1C/P15.1	3	0	--	--	2	0.000	0.000	----	----	0	--	--	2	0.000	0.000	----	----
2397C/20809	3	5	0.000	0.000	5	4.000	2.449	-	0.1778	5	0.000	0.000	5	0.678	0.549	-	0.1814
Habitat Means			0.000	0.000		2.000	1.225	-			0.000	0.000		0.339	0.275	-	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
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.

Table D-73. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, August 1990. (Continued.)

Balanomorphs - abundance (#/m ²)										Balanomorphs - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	1021.100	309.385	4	40.000	40.000	+	0.1685	3	33.610	22.444	4	0.173	0.173	+	0.5007		
2397C/20809	1	6	1821.667	526.177	6	371.667	312.073	+	0.0127	6	89.706	39.360	6	26.442	19.034	+	0.1046		
Habitat Means			1421.384	417.781		205.834	176.037				61.658	30.902		13.308	9.604				
Fisher's	Power		---		Power-50%		---		P-value	Power		---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		0.000		P-value	Power		---		Power-50%		---	P-value		
P15.1C/P15.1	2	3	533.333	498.409	5	446.660	380.126	+	0.9162	3	2.837	1.700	5	15.354	13.778	-	0.9485		
2397C/20809	2	5	4447.060	780.584	6	319.450	250.181	+	0.0001	5	422.636	224.683	6	19.265	14.847	+	0.0220		
Habitat Means			2490.197	639.497		383.055	315.154	+			212.737	113.192		17.310	14.313				
Fisher's	Power		---		Power-50%		---		P-value	Power		---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		0.000		P-value	Power		---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	2	1061.650	68.350	----		0	--	--	2	92.795	23.675	----			
2397C/20809	3	5	2323.080	1217.980	5	807.340	504.711	+	0.2380	5	160.135	98.750	5	75.805	53.792	+	0.1739		
Habitat Means			2323.080	1217.980		934.495	286.531	+			160.135	98.750		84.300	38.734	+			
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 is different than direction of overall tests.

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

z Only one site pair.

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000		
2397C/20809	1	6	18.333	18.333	6	25.000	25.000	-	0.7958	6	0.050	0.050	6	0.373	0.373	-	0.3098		
Habitat Means			9.166	9.166		12.500	12.500	-			0.025	0.025		0.187	0.187	-			
Fisher's	Power		---		Power-50%		---		P-value	Power		---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---		P-value	Power		---		Power-50%		---	P-value		
P15.1C/P15.1	2	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000		
2397C/20809	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---		P-value	Power		---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---		P-value	Power		---		Power-50%		---	P-value		
P15.1C/P15.1	3	0	--	--	2	0.000	0.000	----		0	--	--	2	0.000	0.000	----			
2397C/20809	3	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---		P-value	Power		---		Power-50%		---	P-value		
Stouffer's	Power		---		Power-50%		---		P-value	Power		---		Power-50%		---	P-value		

A. All values are site pair P-values. Values in parentheses indicate that direction of difference between habitat means is different than direction of overall tests.
 y. Direction of difference between habitat means is different than direction of overall tests.
 z. Only one site pair.

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Table D-73. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, August 1990. (Continued.)

Site Pair	MVD	Balanus glandula - abundance (#/m ²)								Balanus glandula - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	23.333	23.333	4	0.000	0.000	+	0.6799	3	0.147	0.147	4	0.000	0.000	+	0.9815
2397C/20809	1	6	10.000	5.164	6	50.000	50.000	-	0.3551	6	2.790	1.589	6	5.525	5.525	-	0.5688
Habitat Means			16.667	14.249		25.000	25.000	-			1.469	0.868		2.763	2.763	-	
Fisher's			Power	0.657		Power-50%	0.384	P-value	0.3684		Power	0.463		Power-50%	0.338	P-value	0.4247
Stouffer's			Power	0.133		Power-50%	0.445	P-value	0.3585		Power	0.061		Power-50%	0.393	P-value	0.3496
P15.1C/P15.1	2	3	10.000	10.000	5	0.000	0.000	+	0.4226	3	0.443	0.443	5	0.000	0.000	-	0.4226
2397C/20809	2	5	14.400	9.020	6	6.667	3.333	-	0.9007	5	1.120	0.722	6	0.648	0.307	+	0.8738
Habitat Means			12.200	9.510		3.334	1.667	-			0.782	0.583		0.324	0.154	+	
Fisher's			Power	0.639		Power-50%	0.598	P-value	0.3190		Power	0.555		Power-50%	0.520	P-value	0.3123
Stouffer's			Power	0.721		Power-50%	0.626	P-value	0.2563		Power	0.631		Power-50%	0.561	P-value	0.2486
P15.1C/P15.1	3	0	--	--	2	0.000	0.000	----	----	0	--	--	2	0.000	0.000	----	----
2397C/20809	3	5	16.400	8.424	5	28.000	12.000	-	0.7632	5	1.228	0.913	5	4.860	2.651	-	0.7131
Habitat Means			16.400	8.424		14.000	6.000	-			1.228	0.913		2.430	1.326	-	
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.

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Site Pair	MVD	Semibalanus balanoides - abundance (#/m ²)								Semibalanus balanoides - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	43.333	23.333	4	0.000	0.000	+	0.9428	3	13.833	11.047	4	0.000	0.000	+	0.7703
2397C/20809	1	6	1049.167	506.350	6	248.333	214.358	+	0.0948	6	72.061	40.718	6	19.038	13.184	-	0.1525
Habitat Means			546.250	264.842		124.167	107.179	+			42.947	25.883		9.519	6.592	+	
Fisher's			Power	0.003		Power-50%	0.028	P-value	0.1073		Power	0.002		Power-50%	0.007	P-value	0.1330
Stouffer's			Power	0.006		Power-50%	0.068	P-value	0.1089		Power	0.002		Power-50%	0.029	P-value	0.1116
P15.1C/P15.1	2	3	0.000	0.000	5	290.000	282.560	-	0.6111	3	0.000	0.000	5	14.264	13.177	-	0.9260
2397C/20809	2	5	2829.460	551.404	6	208.333	190.585	+	0.0001	5	343.683	177.715	6	16.780	14.311	-	0.0197
Habitat Means			1414.730	275.702		249.167	236.573	+			171.842	88.858		15.522	13.744	-	
Fisher's			Power	---		Power-50%	---	P-value	0.0004		Power	---		Power-50%	---	P-value	0.0330
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0084		Power	---		Power-50%	---	P-value	0.0566
P15.1C/P15.1	3	0	--	--	2	225.000	35.000	----	----	0	--	--	2	79.385	26.945	----	----
2397C/20809	3	5	1539.740	966.938	5	592.000	390.428	-	0.4877	5	134.724	92.158	5	67.928	51.058	+	0.5077
Habitat Means			1539.740	966.938		408.500	212.714	-			134.724	92.158		73.656	39.002	+	
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 D-73, Page 8, December 21, 1994

Table D-73. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, August 1990. (Continued.)

Site Pair	MVD	Lacuna spp. - abundance (#/m^2)								Lacuna spp. - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
P15.1C/P15.1	2	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000
2397C/20809	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
P15.1C/P15.1	3	0	--	--	2	0.000	0.000	----		0	--	--	2	0.000	0.000	----	
2397C/20809	3	5	6.000	6.000	5	0.000	0.000	+	0.3739	5	0.046	0.046	5	0.000	0.000	-	0.3739
Habitat Means			6.000	6.000		0.000	0.000	+			0.046	0.046		0.000	0.000	-	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
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.

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Site Pair	MVD	Littorina spp. - abundance (#/m^2)								Littorina spp. - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	3.333	3.333	4	0.000	0.000	+	0.9829	3	0.043	0.043	4	0.000	0.000	+	0.9959
2397C/20809	1	6	366.333	139.265	6	41.667	24.002	+	0.0131	6	19.175	7.436	6	4.455	2.420	+	0.0358
Habitat Means			184.833	71.299		20.834	12.001	+			9.609	3.740		2.228	1.210	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0217		Power	---		Power-50%	---	P-value	0.0510	
Stouffer's		Power	---		Power-50%	---	P-value	0.0384		Power	---		Power-50%	---	P-value	0.0683	
P15.1C/P15.1	2	3	8.667	4.667	5	26.660	26.660	-	0.5797	3	0.000	0.000	5	1.128	1.128	-	0.9485
2397C/20809	2	5	2229.600	640.982	6	190.883	79.012	+	0.0092	5	57.541	19.491	6	8.931	4.668	+	0.0038
Habitat Means			1119.134	322.825		108.772	52.836	+			28.771	9.746		5.030	2.898	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0220		Power	---		Power-50%	---	P-value	0.0079	
Stouffer's		Power	---		Power-50%	---	P-value	0.0734		Power	---		Power-50%	---	P-value	0.0227	
P15.1C/P15.1	3	0	--	--	2	271.650	131.650	----		0	--	--	2	21.020	3.480	----	
2397C/20809	3	5	1370.660	1302.958	5	298.020	121.931	+	0.8273	5	14.469	10.478	5	41.273	20.161	-	0.6485
Habitat Means			1370.660	1302.958		284.835	126.791	+			14.469	10.478		31.147	11.821	-	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
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 D-73, Page 10, December 21, 1994

Table D-73. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, August 1990. (Continued.)

Littorina sitkana - abundance (#/m^2)										Littorina sitkana - biomass (g/m^2)							
Site Pair										N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	3.333	3.333	4	0.000	0.000	-	0.4226	3	0.043	0.043	4	0.000	0.000	+	0.9960
2397C/20809	1	6	152.000	48.648	6	31.667	17.591	-	0.0461	6	14.461	7.683	6	4.023	2.124	+	0.1296
Habitat Means			77.667	25.991		15.834	8.796	-			7.252	3.863		2.012	1.062	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0308		Power	0.007		Power-50%	0.012	P-value	0.1431	
Stouffer's		Power	---		Power-50%	0.014	P-value	0.0240		Power	0.000		Power-50%	0.009	P-value	0.1411	
P15.1C/P15.1	2	3	8.667	4.667	5	22.660	22.660	-	0.5528	3	0.000	0.000	5	0.658	0.658	-	0.9656
2397C/20809	2	5	584.540	73.286	6	172.550	81.968	+	0.0488	5	32.021	16.843	6	8.584	4.682	+	0.0793
Habitat Means			296.604	38.977		97.605	52.314	+			16.011	8.422		4.621	2.670	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0889		Power	0.000		Power-50%	0.009	P-value	0.1002	
Stouffer's		Power	0.000		Power-50%	0.013	P-value	0.1650		Power	0.000		Power-50%	0.005	P-value	0.1130	
P15.1C/P15.1	3	0	--	--	2	196.650	56.650	----		0	--	--	2	19.665	4.835	----	
2397C/20809	3	5	240.000	213.143	5	266.680	121.486	-	0.4251	5	6.403	3.775	5	39.805	20.153	-	0.3748
Habitat Means			240.000	213.143		231.665	89.068	-			6.403	3.775		29.735	12.494	-	
Fisher's		Power	---		Power-50%	---	P-value	----	vs	Power	---		Power-50%	---	P-value	----	z
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.

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Littorina scutulata - abundance (#/m^2)										Littorina scutulata - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	-	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000
2397C/20809	-	6	214.333	128.738	6	10.000	6.831	-	0.0713	6	4.714	1.377	6	0.432	0.324	+	0.0098
Habitat Means			107.167	64.369		5.000	3.416	-			2.357	0.689		0.216	0.162	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0896		Power	---		Power-50%	---	P-value	0.0172	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1010		Power	---		Power-50%	---	P-value	0.0339	
P15.1C/P15.1	2	3	0.000	0.000	5	4.000	4.000	-	0.5597	3	0.000	0.000	5	0.470	0.470	-	0.3739
2397C/20809	2	5	1645.060	692.331	6	18.333	12.758	+	0.0001	5	25.520	6.344	6	0.347	0.170	+	0.0028
Habitat Means			822.530	346.166		11.167	8.379	-			12.760	3.172		0.409	0.320	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0004		Power	---		Power-50%	---	P-value	0.0089	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0097		Power	---		Power-50%	---	P-value	0.0688	
P15.1C/P15.1	3	0	--	--	2	75.000	75.000	---		0	--	--	2	1.355	1.355	---	
2397C/20809	3	5	1130.660	1090.101	5	31.340	21.182	+	0.2804	5	8.065	6.912	5	1.469	0.974	+	0.2885
Habitat Means			1130.660	1090.101		53.170	48.091	+			8.065	6.912		1.412	1.165	+	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
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 D-73, Page 12, December 21, 1994

Table D-73. Invertebrate Abundance and Biomass. Prince William Sound. Estuarine. August 1990. (Continued.)

Mytilus edulis - abundance (#/m^2)										Mytilus edulis - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	138.900	90.926	4	13.325	13.325	+	0.5983	3	8.521	7.556	4	0.173	0.173	+	0.8474
2397C/20809	1	6	209.217	115.599	6	192.150	177.647	-	0.9242	6	22.235	13.693	6	38.146	36.879	-	0.6288
Habitat Means			174.059	103.263		102.738	95.486	-			15.378	10.625		19.160	18.526	-	
Fisher's		Power	0.032		Power-50%	0.092	P-value	0.4118		Power	0.004		Power-50%	0.043	P-value	0.4907	
Stouffer's		Power	0.055		Power-50%	0.195	P-value	0.3302		Power	0.015		Power-50%	0.093	P-value	0.4185	
P15.1C/P15.1	2	3	46.667	41.767	5	35.320	15.398	+	0.9714	3	10.057	9.370	5	29.881	12.896	-	0.9257
2397C/20809	2	5	1690.000	234.859	6	416.117	230.718	+	0.0002	5	437.457	203.452	6	209.729	115.194	-	0.2088
Habitat Means			868.334	138.313		225.719	123.058	+			223.757	106.411		119.805	64.045	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0005		Power	0.001		Power-50%	0.002	P-value	0.2176	
Stouffer's		Power	---		Power-50%	0.002	P-value	0.0040		Power	0.000		Power-50%	0.001	P-value	0.2052	
P15.1C/P15.1	3	0	--	--	2	418.350	198.350	----		0	--	--	2	592.627	132.347	----	
2397C/20809	3	5	1106.660	602.915	5	845.320	371.264	+	0.7234	5	715.494	483.368	5	336.773	131.104	+	0.7346
Habitat Means			1106.660	602.915		631.835	284.807	+			715.494	483.368		464.700	131.726	-	
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.

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Turtonia minuta - abundance (#/m^2)										Turtonia minuta - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000
2397C/20809	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.003	0.003	6	0.000	0.000	-	0.2511
Habitat Means			0.834	0.834		0.834	0.834	o			0.002	0.002		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.2365	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.2085	
P15.1C/P15.1	2	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000
2397C/20809	2	5	4.000	2.449	6	0.000	0.000	-	0.1778	5	0.001	0.001	6	0.000	0.000	+	0.1778
Habitat Means			2.000	1.225		0.000	0.000	+			0.001	0.001		0.000	0.000	+	
Fisher's		Power	0.256		Power-50%	0.263	P-value	0.1828		Power	0.256		Power-50%	0.267	P-value	0.1828	
Stouffer's		Power	0.256		Power-50%	0.190	P-value	0.1703		Power	0.256		Power-50%	0.200	P-value	0.1703	
P15.1C/P15.1	3	0	--	--	2	0.000	0.000	----		0	--	--	2	0.000	0.000	----	
2397C/20809	3	5	31.000	20.761	5	10.660	10.660	+	0.3110	5	0.047	0.037	5	0.000	0.000	-	0.1757
Habitat Means			31.000	20.761		5.330	5.330	+			0.047	0.037		0.000	0.000	+	
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 D-73, Page 14. December 21, 1994

Table D-73. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, August 1990. (Continued.)

Pagurus spp. - abundance (#/m^2)										Pagurus spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000		
2397C/20809	1	6	8.883	8.883	6	16.667	16.667	-	0.6211	6	0.480	0.480	6	0.320	0.320	+	0.7388		
Habitat Means			4.442	4.442		8.334	8.334	-			0.240	0.240		0.160	0.160	+			
Fisher's		Power	---		Power-50%	---	P-value	0.4445		Power	---		Power-50%	---	P-value	0.4967			
Stouffer's		Power	---		Power-50%	---	P-value	0.3635		Power	---		Power-50%	---	P-value	0.4069			
P15.1C/P15.1	2	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000		
2397C/20809	2	5	116.000	46.755	6	18.333	18.333	+	0.0076	5	2.622	1.142	6	2.295	2.295	-	0.8796		
Habitat Means			58.000	23.378		9.166	9.166	+			1.311	0.571		1.148	1.148	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0138		Power	0.000		Power-50%	0.001	P-value	0.5530			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0295		Power	0.000		Power-50%	0.000	P-value	0.4574			
P15.1C/P15.1	3	0	--	--	2	35.000	25.000	----		0	--	--	2	2.160	2.040	----			
2397C/20809	3	5	42.740	19.340	5	31.340	21.804	+	0.5974	5	2.627	1.594	5	0.825	0.625	+	0.4904		
Habitat Means			42.740	19.340		33.170	23.402	+			2.627	1.594		1.493	1.333	+			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		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 D-73, Page 15, December 21, 1994

Nucella spp. - abundance (#/m^2)										Nucella spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000		
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
P15.1C/P15.1	2	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000		
2397C/20809	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
P15.1C/P15.1	3	0	--	--	2	0.000	0.000	----		0	--	--	2	0.000	0.000	----			
2397C/20809	3	5	5.340	5.340	5	0.000	0.000	+	0.3739	5	6.907	6.907	5	0.000	0.000	+	0.3739		
Habitat Means			5.340	5.340		0.000	0.000	+			6.907	6.907		0.000	0.000	+			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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 D-73, Page 15, December 21, 1994

Table D-73. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, August 1990. (Continued.)

Site Pair	MVD	Nucella lima - abundance (#/m ²)								Nucella lima - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
P15.1C/P15.1	2	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000
2397C/20809	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
P15.1C/P15.1	3	0	--	--	2	0.000	0.000		----	0	--	--	2	0.000	0.000		----
2397C/20809	3	5	5.340	5.340	5	0.000	0.000	.	0.3739	5	6.907	6.907	5	0.000	0.000	.	0.3739
Habitat Means			5.340	5.340		0.000	0.000	+			6.907	6.907		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
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.

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Site Pair	MVD	Nucella lamellosa - abundance (#/m ²)								Nucella lamellosa - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
P15.1C/P15.1	2	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000
2397C/20809	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
P15.1C/P15.1	3	0	--	--	2	0.000	0.000		----	0	--	--	2	0.000	0.000		----
2397C/20809	3	5	0.000	0.000	5	0.000	0.000	o	1.0000	5	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z
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.

Table D-73. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, August 1990. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	1245.567	810.119	4	0.000	0.000	+	0.0156	3	1.089	0.427	4	0.000	0.000	-	0.0422		
2397C/20809	1	6	111.167	88.238	6	206.900	125.331	-	0.2495	6	0.194	0.138	6	0.545	0.388	-	0.3587		
Habitat Means			678.367	449.179		103.450	62.666	+			0.642	0.283		0.273	0.194	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0409	Power	---		Power-50%	---		P-value	0.0876		
Stouffer's		Power	0.022		Power-50%	0.016		P-value	0.1852	Power	0.010		Power-50%	0.055		P-value	0.2154		
P15.1C/P15.1	2	3	138.667	70.487	5	0.000	0.000	-	0.7367	3	0.294	0.152	5	0.000	0.000	+	0.8202		
2397C/20809	2	5	470.660	450.926	6	271.550	130.609	-	0.5619	5	0.335	0.328	6	1.916	1.199	-	0.1545		
Habitat Means			304.664	260.707		135.775	65.305	-			0.315	0.240		0.958	0.600	-			
Fisher's		Power	0.099		Power-50%	0.065		P-value	0.3382	Power	0.000		Power-50%	0.055		P-value	0.1863		
Stouffer's		Power	0.193		Power-50%	0.123		P-value	0.2587	Power	0.000		Power-50%	0.115		P-value	0.1986		
P15.1C/P15.1	3	0	--	--	2	0.000	0.000	----		0	--	--	2	0.000	0.000	----			
2397C/20809	3	5	305.260	166.007	5	1161.320	528.731	-	0.6448	5	1.850	1.630	5	5.873	3.183	-	0.5321		
Habitat Means			305.260	166.007		580.660	264.366	-			1.850	1.630		2.937	1.592	-			
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.

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Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	140.000	64.291	4	0.000	0.000	-	0.4868	3	0.960	0.372	4	0.000	0.000	+	0.1250		
2397C/20809	1	6	4.333	2.848	6	195.000	179.476	-	0.2184	6	0.011	0.011	6	0.483	0.483	-	0.3066		
Habitat Means			72.167	33.570		97.500	89.738	-			0.486	0.292		0.242	0.242	+			
Fisher's		Power	0.111		Power-50%	0.065		P-value	0.2886	Power	0.000		Power-50%	0.006		P-value	0.2084		
Stouffer's		Power	0.059		Power-50%	0.034		P-value	0.3524	Power	0.000		Power-50%	0.001		P-value	0.3586		
P15.1C/P15.1	2	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000		
2397C/20809	2	5	76.140	37.992	6	54.450	47.302	+	0.6607	5	2.208	1.962	6	0.840	0.723	-	0.3777		
Habitat Means			38.070	18.996		27.225	23.651	+			1.104	0.981		0.420	0.362	+			
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.4626	Power	0.000		Power-50%	0.000		P-value	0.3173		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.3783	Power	0.000		Power-50%	0.000		P-value	0.2664		
P15.1C/P15.1	3	0	--	--	2	0.000	0.000	----		0	--	--	2	0.010	0.010	----			
2397C/20809	3	5	108.800	88.042	5	112.660	102.952	-	0.9452	5	0.997	0.908	5	1.478	1.000	-	0.8893		
Habitat Means			108.800	88.042		61.330	51.476	-			0.997	0.908		0.744	0.505	-			
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.

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

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

z Only one site pair.

Table D-73, Page 19, December 21, 1994

Table D-73. Invertebrate Abundance and Biomass. Prince William Sound. Estuarine. August 1990. (Continued.)

Errant polychaetes - abundance (#/m ²)										Errant polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	23.333	23.333	4	0.000	0.000	+	0.7192	3	0.040	0.040	4	0.000	0.000	+	0.8161		
2397C/20809	1	6	57.167	57.167	6	10.000	10.000	+	0.3428	6	0.103	0.103	6	0.117	0.117	-	0.9142		
Habitat Means			40.250	40.250		5.000	5.000	+			0.071	0.071		0.059	0.059				
Fisher's	Power	---			Power-50%	---	P-value	0.2334		Power	---			Power-50%	---	P-value	0.5554		
Stouffer's	Power	---			Power-50%	---	P-value	0.1776		Power	---			Power-50%	---	P-value	0.4649		
P15.1C/P15.1	2	3	215.333	113.645	5	58.660	29.695	-	0.1244	3	2.536	2.186	5	0.425	0.388	+	0.2477		
2397C/20809	2	5	130.660	89.465	6	13.333	13.333	-	0.1622	5	0.247	0.155	6	0.003	0.003	+	0.0578		
Habitat Means			172.997	101.555		35.997	21.514	+			1.392	1.171		0.214	0.196				
Fisher's	Power	---			Power-50%	---	P-value	0.0317		Power	---			Power-50%	---	P-value	0.0237		
Stouffer's	Power	---			Power-50%	0.045	P-value	0.0190		Power	---			Power-50%	---	P-value	0.0154		
P15.1C/P15.1	3	0	--	--	2	605.000	505.000	---	---	0	--	--	2	14.293	13.743	---	---		
2397C/20809	3	5	588.600	172.939	5	12.660	12.660	-	0.0006	5	10.483	4.799	5	0.373	0.373	-	0.0037		
Habitat Means			588.600	172.939		308.830	258.830	-			10.483	4.799		7.333	7.058	+			
Fisher's	Power	---			Power-50%	---	P-value	-----	z	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.

Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	106.667	106.667	4	0.000	0.000	-	0.4226	3	0.023	0.023	4	0.000	0.000	+	0.4226		
2397C/20809	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
Habitat Means			53.334	53.334		0.834	0.834	-			0.012	0.012		0.001	0.001	-			
Fisher's	Power	---			Power-50%	---	P-value	0.4216	y	Power	---			Power-50%	---	P-value	0.4216		
Stouffer's	Power	---			Power-50%	---	P-value	0.4697		Power	---			Power-50%	---	P-value	0.4697		
P15.1C/P15.1	2	3	112.000	104.103	5	0.000	0.000	-	0.0151	3	0.007	0.007	5	0.000	0.000	-	0.3515		
2397C/20809	2	5	0.000	0.000	6	10.000	10.000	-	0.4416	5	0.000	0.000	6	0.001	0.001	-	0.3632		
Habitat Means			56.000	52.052		5.000	5.000	-			0.004	0.004		0.001	0.001	-			
Fisher's	Power	---			Power-50%	---	P-value	0.0361		Power	0.000			Power-50%	0.001	P-value	0.4227		
Stouffer's	Power	0.000			Power-50%	0.001	P-value	0.1201		Power	0.000			Power-50%	0.000	P-value	0.4937		
P15.1C/P15.1	3	0	--	--	2	5.000	5.000	---	---	0	--	--	2	0.100	0.100	---	---		
2397C/20809	3	5	776.460	567.971	5	42.680	42.680	+	0.0601	5	6.473	2.820	5	0.053	0.053	-	0.0550		
Habitat Means			776.460	567.971		23.840	23.840	+			6.473	2.820		0.077	0.077	-			
Fisher's	Power	---			Power-50%	---	P-value	-----	z	Power	---			Power-50%	---	P-value	-----		
Stouffer's	Power	---			Power-50%	---	P-value	-----		Power	---			Power-50%	---	P-value	-----		

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

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Table D-73. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, August 1990. (Continued.)

Oligochaeta - abundance (#/m^2)										Oligochaeta - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	8525.566	2081.863	4	8945.325	5688.943	-	0.9276	3	2.831	0.739	4	4.064	2.358	-	0.4443		
2397C/20809	1	6	2348.283	1580.753	6	2831.183	1170.429	-	0.8900	6	1.451	1.039	6	1.132	0.494	+	0.5628		
Habitat Means			5436.925	1831.308		5888.254	3429.686	-			2.141	0.889		2.598	1.426	-			
Fisher's		Power	0.012		Power-50%	0.000	P-value	0.5321		Power	0.008		Power-50%	0.000	P-value	0.4525			
Stouffer's		Power	0.040		Power-50%	0.000	P-value	0.4358		Power	0.031		Power-50%	0.000	P-value	0.4476			
P15.1C/P15.1	2	3	1095.333	1082.335	5	11010.000	3850.328	-	0.0184	3	0.184	0.183	5	1.331	0.530	-	0.2769		
2397C/20809	2	5	2240.000	1856.927	6	3006.000	872.232	-	0.8087	5	0.718	0.610	6	1.740	0.727	-	0.2440		
Habitat Means			1667.667	1469.631		7008.000	2361.280	-			0.451	0.397		1.536	0.628	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0245		Power	---		Power-50%	---	P-value	0.0858			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0330		Power	---		Power-50%	---	P-value	0.0556			
P15.1C/P15.1	3	0	--	--	2	4138.350	28.350	---	---	0	--	--	2	0.530	0.250	---	---		
2397C/20809	3	5	529.060	201.188	5	4764.000	1153.582	-	0.0417	5	0.221	0.140	5	2.236	0.882	-	0.0321		
Habitat Means			529.060	201.188		4451.175	590.966	-			0.221	0.140		1.383	0.566	-			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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.

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Total Invertebrates - abundance (#/m^2)										Total Invertebrates - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	1635.534	1062.005	4	1015.976	6015.045	+	0.1188	3	50.142	19.001	4	4.451	2.506	+	0.5236		
2397C/20809	1	6	5459.316	1692.204	6	4235.717	1658.002	+	0.7856	6	144.225	40.992	6	74.539	49.410	+	0.2074		
Habitat Means			8547.425	1377.105		7125.847	3836.524	+			97.184	29.997		39.495	25.958	+			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.1110		Power	0.000		Power-50%	0.000	P-value	0.1251			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0976		Power	---		Power-50%	---	P-value	0.0897			
P15.1C/P15.1	2	3	3980.000	1328.320	5	11835.939	3981.598	-	0.0756	3	34.044	16.420	5	48.723	24.124	-	0.9872		
2397C/20809	2	5	12692.500	2223.605	6	4689.567	1287.945	+	0.0332	5	942.963	315.026	6	249.140	117.443	+	0.0517		
Habitat Means			8336.250	1775.963		8262.753	2634.772	+			488.504	165.723		148.932	70.784	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0820x		Power	---		Power-50%	---	P-value	0.0698			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.4015		Power	---		Power-50%	---	P-value	0.0862			
P15.1C/P15.1	3	0	--	--	2	6986.650	1176.650	----	----	0	--	--	2	824.492	138.582	----	----		
2397C/20809	3	5	10249.160	2779.152	5	8999.319	2074.541	+	0.9275	5	1073.378	565.747	5	474.342	171.759	+	0.5496		
Habitat Means			10249.160	2779.152		7992.985	1625.596	+			1073.378	565.747		649.417	155.171	+			
Fisher's	Power		---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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.

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Table D-74. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000	
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.5966	Power		---		Power-50%		---	P-value	0.5966
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000
P15.1C/P15.1	2	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000	
2397C/20809	2	6	66.067	19.737	6	11.667	6.540	+	0.0139	6	8.401	2.870	6	1.347	0.764	+	0.0389	
Habitat Means			33.034	9.868		5.834	3.270	+			4.201	1.435		0.674	0.382	+		
Fisher's	Power		---		Power-50%		---	P-value	0.0232	Power		---		Power-50%		---	P-value	0.0548
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0410	Power		---		Power-50%		---	P-value	0.0721
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----		
2397C/20809	3	2	31.650	21.650	5	2.000	2.000	+	0.0303	2	2.107	0.827	5	0.118	0.118	-	0.0326	
Habitat Means			31.650	21.650		2.000	2.000	-			2.107	0.827		0.118	0.118	-		
Fisher's	Power		---		Power-50%		---	P-value	----	Power		---		Power-50%		---	P-value	----
Stouffer's	Power		---		Power-50%		---	P-value	----	Power		---		Power-50%		---	P-value	----

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

2. Only one site pair.

Table D-74, Page 1. December 21, 1994

Lottia pelta - abundance (#/m^2)										Lottia Pelta - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
P15.1C/P15.1	2	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000
2397C/20809	2	6	0.833	0.833	6	0.000	0.000	+	0.2097	6	0.412	0.413	6	0.000	0.000	+	0.2097
Habitat Means			0.417	0.417		0.000	0.000	+			0.206	0.207		0.000	0.000	-	
Fisher's		Power	---		Power-50%	---	P-value	0.2070		Power	---		Power-50%	---	P-value	0.2070	
Stouffer's		Power	---		Power-50%	---	P-value	0.1875		Power	---		Power-50%	---	P-value	0.1875	
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----	
2397C/20809	3	2	0.000	0.000	5	2.000	2.000	-	0.3739	2	0.000	0.000	5	0.118	0.118	-	0.3739
Habitat Means			0.000	0.000		2.000	2.000	-			0.000	0.000		0.118	0.118	-	
Fisher's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----	

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

z. Only one site pair.

Table D-74, Page 2. December 21, 1994

Table D-74. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1991. (Continued.)

Tectura persona - abundance (#/m^2)										Tectura persona - biomass (g/m^2)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000	
2397C/20809	-	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.5966	Power		---		Power-50%		---	P-value	0.5966
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000
P15.1C/P15.1	2	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000	
2397C/20809	2	6	26.383	20.501	6	11.667	6.540	+	0.3850	6	3.497	3.137	6	1.347	0.764	+	0.3973	
Habitat Means			13.192	10.251		5.834	3.270	-			1.749	1.569		0.674	0.382	-		
Fisher's	Power		0.008		Power-50%		0.011	P-value	0.3216	Power		0.005		Power-50%		0.006	P-value	0.3287
Stouffer's	Power		0.003		Power-50%		0.004	P-value	0.2695	Power		0.002		Power-50%		0.003	P-value	0.2748
P15.1C/P15.1	3	0	--	--	0	--	--	---	---	0	--	--	0	--	--	---	---	
2397C/20809	3	2	0.000	0.000	5	0.000	0.000	o	1.0000	2	0.000	0.000	5	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
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 D-74, Page 3. December 21, 1994

Tectura scutum - abundance (#/m^2)										Tectura scutum - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	C	SE	D	P	N	C	SE	N	C	SE	D	P		
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000		
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.5966	Power		---		Power-50%		---	P-value	0.5966	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
P15.1C/P15.1	2	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000		
2397C/20809	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.5966	Power		---		Power-50%		---	P-value	0.5966	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
P15.1C/P15.1	3	0	--	--	0	--	--	---	---	0	--	--	0	--	--	---	---		
2397C/20809	3	2	0.000	0.000	5	0.000	0.000	o	1.0000	2	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
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 D-74, Page 4. December 21, 1994

Table D-74. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1991. (Continued.)

Site Pair	MVD	Balanomorpha - abundance (#/m ²)								Balanomorpha - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	430.000	217.332	4	10.000	10.000	+	0.1263	3	40.000	20.720	4	0.400	0.400	-	0.4001
2397C/20809	1	6	969.433	569.315	6	3.333	3.333	+	0.0283	6	60.007	41.301	6	0.117	0.117	-	0.1036
Habitat Means			699.717	393.324		6.667	6.667	+			50.004	31.011		0.259	0.259		
Fisher's		Power	---		Power-50%	---	P-value	0.0072		Power	---		Power-50%	---	P-value	0.0577	
Stouffer's		Power	---		Power-50%	0.152	P-value	0.0042		Power	---		Power-50%	---	P-value	0.0404	
P15.1C/P15.1	2	4	23.750	23.750	5	467.660	142.215	-	0.0067	4	0.574	0.574	5	34.749	23.314	-	0.0172
2397C/20809	2	6	1907.750	429.780	6	205.000	87.626	-	0.0209	6	281.788	79.399	6	15.459	8.293	+	0.0374
Habitat Means			965.750	226.765		336.330	114.921	-			141.181	39.987		25.104	15.804	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0222 _{xy}		Power	---		Power-50%	---	P-value	0.0487 _{xy}	
Stouffer's		Power	0.000		Power-50%	0.093	P-value	0.3882		Power	0.000		Power-50%	0.044	P-value	0.4157	
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----	
2397C/20809	3	2	1703.350	1640.050	5	610.000	392.046	+	0.5566	2	235.704	227.504	5	70.230	49.598	-	0.4607
Habitat Means			1703.350	1640.050		610.000	392.046	+			235.704	227.504		70.230	49.598	+	
Fisher's		Power	---		Power-50%	---	P-value	----	_z	Power	---		Power-50%	---	P-value	----	_z
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 D-74, Page 5, December 21, 1994

Site Pair	MVD	Chthamalus dalli - abundance (#/m ²)								Chthamalus dalli - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
P15.1C/P15.1	2	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000
2397C/20809	2	6	0.000	0.000	6	1.667	1.667	-	0.2097	6	0.000	0.000	6	0.001	0.001	-	0.2097
Habitat Means			0.000	0.000		0.834	0.834	-			0.000	0.000		0.001	0.001	-	
Fisher's		Power	---		Power-50%	---	P-value	0.2070		Power	---		Power-50%	---	P-value	0.2070	
Stouffer's		Power	---		Power-50%	---	P-value	0.1875		Power	---		Power-50%	---	P-value	0.1875	
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----	
2397C/20809	3	2	0.000	0.000	5	0.000	0.000	o	1.0000	2	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	----	_z	Power	---		Power-50%	---	P-value	----	_z
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 D-74, Page 6, December 21, 1994

Table D-74. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1991. (Continued.)

		Balanus glandula - abundance (#/m ²)								Balanus glandula - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	160.000	80.000	4	0.000	0.000	+	0.1835	3	5.243	2.746	4	0.000	0.000	-	0.1837
2397C/20809		6	11.667	6.412	6	0.000	0.000	+	0.0800	6	1.903	1.154	6	0.000	0.000	-	0.0768
Habitat Means			85.834	43.206		0.000	0.000	+			3.573	1.950		0.000	0.000	+	
Fisher's	Power	---			Power-50%	---		P-value	0.0242	Power	---			Power-50%	---	P-value	0.0234
Stouffer's	Power	---			Power-50%	0.374		P-value	0.0147	Power	---			Power-50%	---	P-value	0.0142
P15.1C/P15.1	2	4	18.750	18.750	5	2.000	2.000	+	0.5495	4	0.335	0.335	5	0.022	0.022	+	0.7902
2397C/20809	2	6	15.550	8.145	6	1.667	1.667	+	0.0817	6	1.728	1.206	6	0.435	0.435	+	0.2118
Habitat Means			17.150	13.448		1.834	1.834	+			1.032	0.771		0.229	0.229	+	
Fisher's	Power	---			Power-50%	---		P-value	0.0616	Power	0.035			Power-50%	0.116	P-value	0.1746
Stouffer's	Power	---			Power-50%	0.464		P-value	0.0490	Power	0.021			Power-50%	0.226	P-value	0.1421
P15.1C/P15.1	3	0	--	--	0	--	--	---	---	0	--	--	0	--	--	---	---
2397C/20809	3	2	30.000	30.000	5	16.000	11.225	+	0.8792	2	1.260	1.260	5	1.570	1.135	-	0.9337
Habitat Means			30.000	30.000		16.000	11.225	+			1.260	1.260		1.570	1.135	-	
Fisher's	Power	---			Power-50%	---		P-value	---	Power	---			Power-50%	---	P-value	---
Stouffer's	Power	---			Power-50%	---		P-value	---	Power	---			Power-50%	---	P-value	---
y Direction of difference between habitat means is different than direction of overall tests. z Only one site pair.																	
		Semibalanus balanoides - abundance (#/m ²)								Semibalanus balanoides - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	260.000	133.167	4	0.000	0.000	+	0.6236	3	34.677	18.442	4	0.000	0.000	+	0.4404
2397C/20809	1	6	719.983	476.633	6	3.333	3.333	+	0.0876	6	53.890	39.663	6	0.117	0.117	+	0.1248
Habitat Means			489.992	304.900		1.667	1.667	+			44.284	29.053		0.059	0.059	+	
Fisher's	Power	---			Power-50%	---		P-value	0.0723	Power	---			Power-50%	---	P-value	0.0727
Stouffer's	Power	---			Power-50%	0.318		P-value	0.0600	Power	---			Power-50%	---	P-value	0.0514
P15.1C/P15.1	2	4	2.500	2.500	5	122.320	60.382	-	0.0136	4	0.122	0.122	5	22.373	17.921	-	0.0163
2397C/20809	2	6	1491.383	383.846	6	147.500	85.963	+	0.0043	6	245.846	77.958	6	12.243	7.132	-	0.0234
Habitat Means			746.942	193.173		134.910	73.173	-			122.984	39.040		17.308	12.527	-	
Fisher's	Power	---			Power-50%	---		P-value	0.0153x	Power	---			Power-50%	---	P-value	0.0469xy
Stouffer's	Power	0.004			Power-50%	0.087		P-value	0.3920	Power	0.026			Power-50%	0.057	P-value	0.4619
P15.1C/P15.1	3	0	--	--	0	--	--	---	---	0	--	--	0	--	--	---	---
2397C/20809	3	2	1338.350	1328.350	5	550.000	368.660	+	0.7358	2	223.100	219.540	5	67.232	48.830	+	0.4689
Habitat Means			1338.350	1328.350		550.000	368.660	+			223.100	219.540		67.232	48.830	+	
Fisher's	Power	---			Power-50%	---		P-value	---	Power	---			Power-50%	---	P-value	---
Stouffer's	Power	---			Power-50%	---		P-value	---	Power	---			Power-50%	---	P-value	---

Table D-74, Page 7. December 21, 1994

Table D-74. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1991. (Continued.)

Lacuna spp. - abundance (#/m ²)										Lacuna spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.00	10	
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.00	10	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's																			
Stouffer's																			
P15.1C/P15.1	2	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.00	10	
2397C/20809	2	6	0.833	0.833	6	0.000	0.000	+	0.2097	6	0.007	0.007	6	0.000	0.000	+	0.20	17	
Habitat Means			0.417	0.417		0.000	0.000	-			0.004	0.004		0.000	0.000	+			
Fisher's																			
Stouffer's																			
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----			
2397C/20809	3	2	25.000	15.000	5	0.000	0.000	+	0.1350	2	0.175	0.115	5	0.000	0.000	+	0.10	18	
Habitat Means			25.000	15.000		0.000	0.000	+			0.175	0.115		0.000	0.000	+			
Fisher's																			
Stouffer's																			

Littorina spp. - abundance (#/m ²)										Littorina spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	682.567	381.947	4	0.000	0.000	-	0.0030	3	22.135	14.531	4	0.000	0.000	+	0.00	7	
2397C/20809	1	6	173.883	123.400	6	56.667	56.667	-	0.2773	6	14.125	8.976	6	0.660	0.660	-	0.24	9	
Habitat Means			428.225	252.674		28.334	28.334	-			18.130	11.754		0.330	0.330	-			
Fisher's																			
Stouffer's																			
P15.1C/P15.1	2	4	79.500	47.612	5	10.660	10.660	+	0.9164	4	0.868	0.689	5	1.539	1.539	-	0.45	3	
2397C/20809	2	6	182.233	161.850	6	934.167	706.032	+	0.6611	6	50.259	6.530	6	34.821	13.894	-	0.27	7	
Habitat Means			630.867	104.731		472.414	358.346	-			25.564	3.610		18.180	7.717	-			
Fisher's																			
Stouffer's																			
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----			
2397C/20809	3	2	1488.300	1468.300	5	221.000	61.123	+	0.7684	2	20.201	19.762	5	11.877	3.614	+	0.80	0	
Habitat Means			1488.300	1468.300		221.000	61.123	+			20.201	19.762		11.877	3.614	+			
Fisher's																			
Stouffer's																			

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

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Table D-74. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1991. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	669.233	369.213	4	0.000	0.000	+	0.0032	3	21.851	14.256	4	0.000	0.000	+	0.0096		
2397C/20809	1	6	126.667	83.912	6	56.667	56.667	-	0.4601	6	12.736	8.061	6	0.660	0.660	+	0.4335		
Habitat Means			397.950	226.563		28.334	28.334	+			17.294	11.159		0.330	0.330	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0033		Power	---		Power-50%	---	P-value	0.0082		
Stouffer's			Power	---		Power-50%	0.046	P-value	0.0046		Power	---		Power-50%	---	P-value	0.0085		
P15.1C/P15.1	2	4	79.500	47.612	5	8.000	8.000	+	0.9110	4	0.868	0.689	5	1.243	1.243	-	0.4436		
2397C/20809	2	6	529.167	99.935	6	918.333	699.373	-	0.4828	6	34.631	4.828	6	34.711	13.846	-	0.3603		
Habitat Means			304.334	73.774		463.167	353.687	-			17.750	2.759		17.977	7.545	-			
Fisher's			Power	0.040		Power-50%	0.085	P-value	0.3982		Power	0.322		Power-50%	0.042	P-value	0.1686		
Stouffer's			Power	0.065		Power-50%	0.057	P-value	0.3383		Power	0.428		Power-50%	0.017	P-value	0.1173		
P15.1C/P15.1	3	0	--	--	0	--	--	---	---	0	--	--	0	--	--	---	---		
2397C/20809	3	2	141.650	141.650	5	136.340	48.410	+	0.3608	2	7.347	7.347	5	7.879	3.104	-	0.2666		
Habitat Means			141.650	141.650		136.340	48.410	+			7.347	7.347		7.879	3.104	-			
Fisher's			Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		
Stouffer's			Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		
* At least one site pair shows a significant difference in direction of overall tests. † Direction of difference between habitat means is different than direction of overall tests. ‡ Only one site pair.																			
Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	13.333	13.333	4	0.000	0.000	+	0.7859	3	0.283	0.283	4	0.000	0.000	-	0.8419		
2397C/20809	1	6	47.217	44.247	6	0.000	0.000	+	0.2148	6	1.389	1.286	6	0.000	0.000	-	0.2078		
Habitat Means			30.275	28.790		0.000	0.000	+			0.836	0.785		0.000	0.000	-			
Fisher's			Power	0.135		Power-50%	0.090	P-value	0.1758		Power	0.150		Power-50%	0.100	P-value	0.1806		
Stouffer's			Power	0.302		Power-50%	0.155	P-value	0.1425		Power	0.331		Power-50%	0.185	P-value	0.1511		
P15.1C/P15.1	2	4	0.000	0.000	5	2.660	2.660	-	0.9846	4	0.000	0.000	5	0.296	0.296	-	0.3739		
2397C/20809	2	6	653.067	151.783	6	15.833	9.347	+	0.0001	6	15.628	2.359	6	0.110	0.076	+	0.0016		
Habitat Means			326.534	75.891		9.246	6.004	+			7.814	1.180		0.203	0.186	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0003		Power	---		Power-50%	---	P-value	0.0054		
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0031		Power	---		Power-50%	---	P-value	0.0545		
P15.1C/P15.1	3	0	--	--	0	--	--	---	---	0	--	--	0	--	--	---	---		
2397C/20809	3	2	1346.650	1326.650	5	84.660	29.690	+	0.4115	2	12.855	12.415	5	3.998	1.476	+	0.6640		
Habitat Means			1346.650	1326.650		84.660	29.690	+			12.855	12.415		3.998	1.476	+			
Fisher's			Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		
Stouffer's			Power	---		Power-50%	---	P-value	---		Power	---		Power-50%	---	P-value	---		

Table D-74. Page 11. December 21, 1994

Table D-74. Invertebrate Abundance and Biomass. Prince William Sound. Estuarine. June 1991. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	89.633	71.076	4	0.000	0.000	+	0.7589	3	4.613	4.019	4	0.000	0.000	+	0.8250		
2397C/20809	1	6	255.833	250.551	6	81.667	81.667	+	0.4342	6	6.636	6.493	6	17.738	17.738	-	0.4846		
Habitat Means			172.733	160.814		40.834	40.834	+			5.625	5.256		8.869	8.869	-			
Fisher's		Power	0.004		Power-50%	0.043	P-value	0.2880		Power	0.022		Power-50%	0.032	P-value	0.4199			
Stouffer's		Power	0.008		Power-50%	0.077	P-value	0.2208		Power	0.005		Power-50%	0.077	P-value	0.3677			
P15.1C/P15.1	2	4	30.250	22.693	5	95.540	45.005	-	0.9090	4	0.783	0.634	5	154.720	83.589	-	0.6354		
2397C/20809	2	6	932.783	129.884	6	742.233	616.560	+	0.6988	6	464.542	151.965	6	358.895	316.620	+	0.7050		
Habitat Means			481.517	76.290		418.887	330.783	+			232.663	76.299		256.808	200.105	-			
Fisher's		Power	0.004		Power-50%	0.050	P-value	0.5065		Power	0.003		Power-50%	0.025	P-value	0.5310			
Stouffer's		Power	0.002		Power-50%	0.027	P-value	0.4236		Power	0.001		Power-50%	0.009	P-value	0.4731			
P15.1C/P15.1	3	0	--	--	0	--	--	----	----	0	--	--	0	--	--	----	----		
2397C/20809	3	2	965.000	431.700	5	1028.320	503.485	-	0.7090	2	864.371	816.849	5	663.547	356.688	-	0.9819		
Habitat Means			965.000	431.700		1028.320	503.485	-			864.371	816.849		663.547	356.688	-			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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 trend.

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

z Only one site pair.

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Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	43.333	43.333	4	0.000	0.000	+	0.4226	3	0.070	0.070	4	0.000	0.000	+	0.4226		
2397C/20809	1	6	0.000	0.000	6	8.883	8.883	-	0.3632	6	0.000	0.000	6	0.009	0.009	-	0.3632		
Habitat Means			21.667	21.667		4.442	4.442	-			0.035	0.035		0.005	0.005	-			
Fisher's		Power	---		Power-50%	---	P-value	0.4216	y	Power	---		Power-50%	---	P-value	0.4216	y		
Stouffer's		Power	---		Power-50%	---	P-value	0.4697		Power	---		Power-50%	---	P-value	0.4697			
P15.1C/P15.1	2	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000		
2397C/20809	2	6	0.000	0.000	6	26.667	21.239	-	0.1200	6	0.000	0.000	6	0.018	0.018	-	0.2073		
Habitat Means			0.000	0.000		13.334	10.620	-			0.000	0.000		0.009	0.009	-			
Fisher's		Power	0.126		Power-50%	---	P-value	0.1352		Power	0.002		Power-50%	---	P-value	0.2052			
Stouffer's		Power	0.054		Power-50%	---	P-value	0.1357		Power	0.000		Power-50%	---	P-value	0.1863			
P15.1C/P15.1	3	0	--	--	0	--	--	----	----	0	--	--	0	--	--	----	----		
2397C/20809	3	2	25.000	25.000	5	8.000	8.000	+	0.4844	2	0.010	0.010	5	0.004	0.004	+	0.5133		
Habitat Means			25.000	25.000		8.000	8.000	+			0.010	0.010		0.004	0.004	+			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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 trend.

At least one site pair provides a value in opposite direction of overall tests.

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

z Only one site pair.

Table D-74. Page 13. December 21, 1994

Table D-74. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1991. (Continued.)

Pagurus spp. - abundance (#/m ²)										Pagurus spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000		
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
P15.1C/P15.1	2	4	0.000	0.000	5	10.660	10.660	-	0.8035	4	0.000	0.000	5	1.205	1.205	-	0.3739		
2397C/20809	2	6	67.500	46.278	6	8.333	4.773	+	0.1215	6	0.638	0.296	6	0.187	0.148	-	0.6662		
Habitat Means			33.750	23.139		9.496	7.717	+			0.319	0.148		0.696	0.677	-			
Fisher's		Power	0.033		Power-50%	0.026	P-value	0.1568		Power	0.117		Power-50%	0.180	P-value	0.3843			
Stouffer's		Power	0.000		Power-50%	0.013	P-value	0.1789		Power	0.040		Power-50%	0.095	P-value	0.3730			
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----			
2397C/20809	3	2	25.000	5.000	5	37.000	28.792	-	0.5010	2	0.615	0.455	5	0.957	0.759	-	0.5276		
Habitat Means			25.000	5.000		37.000	28.792	-			0.615	0.455		0.957	0.759	-			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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.

Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000		
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
P15.1C/P15.1	2	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000		
2397C/20809	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----			
2397C/20809	3	2	10.000	10.000	5	2.000	2.000	+	0.4012	2	5.320	5.320	5	6.082	6.082	-	0.5704		
Habitat Means			10.000	10.000		2.000	2.000	+			5.320	5.320		6.082	6.082	-			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			

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

Table D-74, Page 15. December 21, 1994

Table D-74. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1991. (Continued.)

Nucella lima - abundance (#/m ²)										Nucella lima - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000		
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
P15.1C/P15.1	2	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000		
2397C/20809	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----			
2397C/20809	3	2	10.000	10.000	5	2.000	2.000	+	0.4012	2	5.320	5.320	5	6.082	6.082	-	0.5704		
Habitat Means			10.000	10.000		2.000	2.000	+			5.320	5.320		6.082	6.082	-			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
Stouffer's		Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----			

Nucella lamellosa - abundance (#/m ²)										Nucella lamellosa - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	0.000	0.000	4	0.000	0.000	o	1.0000	3	0.000	0.000	4	0.000	0.000	o	1.0000		
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
P15.1C/P15.1	2	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000		
2397C/20809	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----			
2397C/20809	3	2	0.000	0.000	5	0.000	0.000	o	1.0000	2	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	----	z	Power	---		Power-50%	---	P-value	----	z		
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.

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Table D-74. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1991. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	151.100	125.398	4	0.000	0.000	+	0.7042	3	0.187	0.187	4	0.000	0.000	+	0.9235		
2397C/20809	1	6	155.283	110.857	6	455.000	339.507	-	0.3260	6	1.182	1.150	6	1.712	1.344	-	0.7194		
Habitat Means			153.192	118.128		227.500	169.754	-			0.685	0.669		0.856	0.672	-			
Fisher's			Power	0.000		Power-50%	0.136	P-value	0.3430		Power	0.000		Power-50%	0.009	P-value	0.5115		
Stouffer's			Power	0.000		Power-50%	0.213	P-value	0.3349		Power	0.000		Power-50%	0.023	P-value	0.4262		
P15.1C/P15.1	2	4	31.250	29.607	5	8.440	8.440	+	0.6307	4	0.531	0.516	5	0.085	0.085	-	0.4955		
2397C/20809	2	6	501.367	336.578	6	793.333	500.944	-	0.7729	6	0.585	0.238	6	7.902	4.934	-	0.9581		
Habitat Means			266.309	183.093		400.887	254.692	-			0.558	0.377		3.994	2.510	-			
Fisher's			Power	0.001		Power-50%	0.033	P-value	0.5113		Power	0.001		Power-50%	0.043	P-value	0.3933		
Stouffer's			Power	0.003		Power-50%	0.083	P-value	0.4460		Power	0.003		Power-50%	0.081	P-value	0.3283		
P15.1C/P15.1	3	0	--	--	0	--	--	----	----	0	--	--	0	--	--	----	----		
2397C/20809	3	2	243.350	213.350	5	1664.320	999.000	-	0.9994	2	1.655	0.325	5	3.768	2.717	-	0.5559		
Habitat Means			243.350	213.350		1664.320	999.000	-			1.655	0.325		3.768	2.717	-			
Fisher's			Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----		
Stouffer's			Power	---		Power-50%	---	P-value	----		Power	---		Power-50%	---	P-value	----		

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	77.767	77.767	4	0.000	0.000	+	0.1877	3	0.291	0.291	4	0.000	0.000	+	0.4226		
2397C/20809	1	6	8.883	8.883	6	6.667	6.667	+	0.9631	6	0.018	0.018	6	0.000	0.000	-	0.4040		
Habitat Means			43.325	43.325		3.334	3.334	+			0.155	0.155		0.000	0.000	-			
Fisher's			Power	---		Power-50%	---	P-value	0.1851		Power	---		Power-50%	---	P-value	0.1773		
Stouffer's			Power	---		Power-50%	---	P-value	0.1674		Power	---		Power-50%	---	P-value	0.1237		
P15.1C/P15.1	2	4	0.000	0.000	5	0.000	0.000	0	1.0000	4	0.000	0.000	5	0.000	0.000	0	1.0000		
2397C/20809	2	6	71.650	58.644	6	11.667	8.333	-	0.2042	6	3.694	3.445	6	0.105	0.092	-	0.1924		
Habitat Means			35.825	29.322		5.834	4.167	-			1.847	1.723		0.053	0.046	-			
Fisher's			Power	0.001		Power-50%	0.001	P-value	0.2029		Power	0.000		Power-50%	0.000	P-value	0.1941		
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.1846		Power	0.000		Power-50%	0.000	P-value	0.1783		
P15.1C/P15.1	3	0	--	--	0	--	--	----	----	0	--	--	0	--	--	----	----		
2397C/20809	3	2	131.650	131.650	5	294.660	209.895	-	0.8500	2	2.776	2.776	5	3.357	2.579	-	0.8995		
Habitat Means			131.650	131.650		294.660	209.895	-			2.776	2.776		3.357	2.579	-			
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.

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Table D-74. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1991. (Continued.)

Errant polychaetes - abundance (#/m^2)										Errant polychaetes - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	45.200	45.200	4	0.000	0.000	-	0.4226	3	1.654	1.654	4	0.000	0.000	+	0.4226		
2397C/20809	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			22.600	22.600		0.000	0.000	-			0.827	0.827		0.000	0.000	+			
Fisher's	Power		---		Power-50%	---	P-value	0.3431		Power	---		Power-50%	---	P-value	0.3431			
Stouffer's	Power		---		Power-50%	---	P-value	0.2854		Power	---		Power-50%	---	P-value	0.2854			
P15.1C/P15.1	2	4	10.000	7.071	5	227.340	186.672	-	0.1473	4	1.548	0.933	5	10.888	9.559	-	0.6218		
2397C/20809	2	6	102.183	37.965	6	33.333	33.333	+	0.5836	6	0.529	0.227	6	0.032	0.032	-	0.0639		
Habitat Means			56.092	22.518		130.337	110.003	-			1.039	0.580		5.460	4.796	-			
Fisher's	Power		0.556		Power-50%	0.138	P-value	0.2062		Power	0.003		Power-50%	0.112	P-value	0.1060	y		
Stouffer's	Power		0.634		Power-50%	0.220	P-value	0.2619		Power	0.003		Power-50%	0.168	P-value	0.1680			
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----			
2397C/20809	3	2	133.300	80.000	5	38.660	16.075	+	0.2688	2	0.427	0.000	5	2.944	2.936	-	0.1414		
Habitat Means			133.300	80.000		38.660	16.075	+			0.427	0.000		2.944	2.936	-			
Fisher's	Power		---		Power-50%	---	P-value	-----	z	Power	---		Power-50%	---	P-value	-----	z		
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.

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Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
P15.1C/P15.1	1	3	41.467	21.361	4	0.000	0.000	+	0.1840	3	0.001	0.000	4	0.000	0.000	+	0.0087		
2397C/20809	1	6	4.433	4.433	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.5166		
Habitat Means			22.950	12.897		0.000	0.000	-			0.001	0.001		0.000	0.000	+			
Fisher's	Power		---		Power=50%	---	P-value	0.0851		Power	---		Power=50%	---	P-value	0.0088			
Stouffer's	Power		---		Power=50%	0.665	P-value	0.0568		Power	---		Power=50%	---	P-value	0.0103			
P15.1C/P15.1	2	4	0.000	0.000	5	74.660	74.660	-	0.2798	4	0.000	0.000	5	2.560	2.560	-	0.2354		
2397C/20809	2	6	48.883	43.779	6	0.000	0.000	+	0.4076	6	0.018	0.018	6	0.000	0.000	-	0.5303		
Habitat Means			24.442	21.890		37.330	37.330	-			0.009	0.009		1.280	1.280	-			
Fisher's	Power		0.018		Power=50%	0.012	P-value	0.3559		Power	0.001		Power=50%	0.004	P-value	0.2982			
Stouffer's	Power		0.000		Power=50%	0.003	P-value	0.4290		Power	0.000		Power=50%	0.001	P-value	0.3462			
P15.1C/P15.1	3	0	--	--	0	--	--	----		0	--	--	0	--	--	----			
2397C/20809	3	2	53.350	53.350	5	16.000	16.000	+	0.4816	2	0.026	0.026	5	0.020	0.020	+	0.5916		
Habitat Means			53.350	53.350		16.000	16.000	+			0.026	0.026		0.020	0.020	+			
Fisher's	Power		---		Power=50%	---	P-value	-----	z	Power	---		Power=50%	---	P-value	-----	z		
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 D-74, Page 22. December 21, 1994

Table D-74. Invertebrate Abundance and Biomass. Prince William Sound, Estuarine, June 1991. (Continued.)

Oligochaeta - abundance (#/m^2)											Oligochaeta - biomass (g/m^2)										
Site Pair	MVD	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P			
P15.1C/P15.1	1	3	6982.633	3777.096	4	4340.500	2372.296	+	0.3224		3	4.580	2.257	4	2.795	0.765	-	0.2452			
2397C/20809	1	6	2071.667	530.198	6	920.000	572.552	+	0.5639		6	1.587	0.580	6	0.909	0.528	+	0.5527			
Habitat Means			4527.150	2153.647		2630.250	1472.424					3.084	1.419		1.852	0.647					
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1859			Power	0.000		Power-50%	0.000	P-value	0.1486				
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1340			Power	0.000		Power-50%	0.000	P-value	0.1072				
P15.1C/P15.1	2	4	425.250	423.585	5	10477.340	3983.134	-	0.0005		4	0.072	0.072	5	4.460	1.796	-	0.0009			
2397C/20809	2	6	987.217	914.918	6	1915.550	375.788	-	0.0200		6	0.564	0.553	6	1.623	0.408	-	0.0039			
Habitat Means			706.234	669.252		6196.445	2179.461					0.318	0.313		3.042	1.102					
Fisher's		Power	---		Power-50%	---	P-value	0.0000			Power	---		Power-50%	---	P-value	0.0000				
Stouffer's		Power	---		Power-50%	0.059	P-value	0.0000			Power	---		Power-50%	---	P-value	0.0000				
P15.1C/P15.1	3	0	--	--	0	--	--		----		0	--	--	0	--	--		----			
2397C/20809	3	2	0.000	0.000	5	2776.340	1275.354	-	0.0002		2	0.000	0.000	5	2.268	1.122	-	0.0004			
Habitat Means			0.000	0.000		2776.340	1275.354					0.000	0.000		2.268	1.122					
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.

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Total Invertebrates - abundance (#/m^2)										Total Invertebrates - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
P15.1C/P15.1	1	3	8870.333	4383.126	4	4350.500	2381.937	-	0.1680	3	103.720	19.965	4	3.195	1.122	+	0.1381
2397C/20809	1	6	3728.850	1317.225	6	1543.883	705.568	-	0.3689	6	84.069	55.286	6	21.153	19.821	+	0.2142
Habitat Means			6299.592	2850.176		2947.192	1543.753	-			93.894	37.626		12.174	10.472	-	
Fisher's	Power		---		Power-50%		---	P-value	0.0801	Power		---		Power-50%		P-value	0.0437
Stouffer's	Power		---		Power-50%		0.000	P-value	0.0537	Power		---		Power-50%		P-value	0.0270
P15.1C/P15.1	2	4	887.500	478.110	5	12050.520	3909.988	-	0.0389	4	12.625	5.651	5	244.947	121.389	-	0.4873
2397C/20809	2	6	6315.333	1109.506	6	4980.283	1303.192	+	0.2771	6	846.941	143.756	6	422.050	322.924	-	0.1497
Habitat Means			3601.417	793.808		8515.402	2606.590	-			429.783	74.704		333.499	222.157	+	
Fisher's	Power		---		Power-50%		---	P-value	0.0853	Power	0.000		Power-50%	0.005		P-value	0.2192
Stouffer's	Power		0.000		Power-50%		0.002	P-value	0.2444	Power	0.000		Power-50%	0.001		P-value	0.2988
P15.1C/P15.1	3	0	--	--	0	--	--	----	----	0	--	--	0	--	--	----	----
2397C/20809	3	2	7074.900	4045.100	5	6974.960	3224.103	+	0.7921	2	1182.116	1033.508	5	775.159	414.449	-	0.7450
Habitat Means			7074.900	4045.100		6974.960	3224.103	+			1182.116	1033.508		775.159	414.449	-	
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.

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Table D-75. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	20.000	20.000	6	0.000	0.000	+	0.2419	6	1.405	1.405	6	0.000	0.000	+	0.4080		
1642C/833	1	6	10.000	10.000	4	27.500	11.815	-	0.3575	6	0.915	0.915	4	8.383	5.094	-	0.0016		
4537C/979	1	6	45.000	14.083	6	8.333	5.426	+	0.0369	6	2.957	0.884	6	0.747	0.475	+	0.0327		
Habitat Means			25.000	14.694		11.944	5.747				1.759	1.068		3.043	1.856				
Fisher's	Power		---		Power-50%	---		P-value	0.0498	Power	---		Power-50%	---		P-value	0.0766		
Stouffer's	Power		---		Power-50%		0.273	P-value	0.0533	Power	0.090		Power-50%	0.241		P-value	0.3111		
19C/19	2	6	75.000	49.783	6	23.333	16.667	+	0.1577	6	14.920	10.621	6	2.270	1.439	-	0.0786		
1642C/833	2	6	45.000	13.102	4	15.000	6.455	-	0.4572	6	8.140	2.923	4	1.575	0.755	-	0.4040		
4537C/979	2	6	45.000	14.549	6	43.333	19.777	+	0.9630	6	7.985	2.907	6	3.542	1.533	+	0.5266		
Habitat Means			55.000	25.811		27.222	14.300	+			10.348	5.484		2.462	1.242	+			
Fisher's	Power		0.000		Power-50%	0.023		P-value	0.1477	Power	---		Power-50%	---		P-value	0.0548		
Stouffer's	Power		0.000		Power-50%	0.017		P-value	0.2225	Power	---		Power-50%	---		P-value	0.0824		
19C/19	3	4	72.500	26.260	6	25.000	14.318	+	0.2855	4	8.180	3.600	6	1.993	1.402	+	0.2792		
1642C/833	3	5	80.000	52.536	4	10.000	7.071	+	0.6750	5	11.094	7.579	4	2.288	2.121	+	0.9407		
4537C/979	3	3	26.667	21.858	6	43.333	22.161	-	0.8451	3	1.433	1.115	6	5.673	3.263	-	0.8341		
Habitat Means			59.722	33.551		26.111	14.517				6.902	4.098		3.318	2.262				
Fisher's	Power		0.090		Power-50%	0.137		P-value	0.3059	Power	0.058		Power-50%	0.138		P-value	0.3669		
Stouffer's	Power		0.077		Power-50%	0.192		P-value	0.3760	Power	0.067		Power-50%	0.195		P-value	0.4433		

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

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Lottia pelta - abundance (#/m^2)										Lottia Pelta - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	1	6	3.333	2.108	6	3.333	3.333	o	0.6922	6	0.483	0.363	6	0.147	0.147	-	0.5245		
Habitat Means			1.111	0.703		1.111	1.111	o			0.161	0.121		0.049	0.049	-			
Fisher's		Power	0.000		Power-50%	0.162		P-value	0.5574	Power	0.003		Power-50%	0.026		P-value	0.4876		
Stouffer's		Power	0.000		Power-50%	0.338		P-value	0.3702	Power	0.015		Power-50%	0.101		P-value	0.2970		
19C/19	2	6	41.667	21.200	6	10.000	8.165	+	0.0488	6	6.845	3.259	6	1.493	1.074	+	0.0906		
1642C/833	2	6	18.333	10.462	4	12.500	4.787	+	0.7369	6	5.288	3.510	4	1.283	0.539	+	0.2505		
4537C/979	2	6	11.667	4.014	6	6.667	3.333	+	0.7475	6	2.763	1.251	6	0.753	0.572	+	0.5157		
Habitat Means			23.889	11.892		9.722	5.428	+			4.965	2.673		1.176	0.728	+			
Fisher's		Power	---		Power-50%	---		P-value	0.0770	Power	---		Power-50%	---		P-value	0.0422		
Stouffer's		Power	0.059		Power-50%	0.630		P-value	0.1725	Power	---		Power-50%	---		P-value	0.0622		
19C/19	3	4	35.000	17.078	6	18.333	12.225	+	0.2956	4	4.110	2.197	6	1.423	0.922	-	0.1929		
1642C/833	3	5	70.000	45.166	4	2.500	2.500	+	0.3713	5	10.294	6.932	4	0.127	0.127	-	0.3743		
4537C/979	3	3	0.000	0.000	6	1.667	1.667	-	0.3632	3	0.000	0.000	6	1.207	1.207	-	0.2519		
Habitat Means			35.000	20.748		7.500	5.464	-			4.801	3.043		0.919	0.752	-			
Fisher's		Power	0.043		Power-50%	0.089		P-value	0.2695	Power	0.043		Power-50%	0.066		P-value	0.2170		
Stouffer's		Power	0.000		Power-50%	0.011		P-value	0.5241	Power	0.000		Power-50%	0.008		P-value	0.5772		

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

Table D-75. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1990. (Continued.)

Site Pair	MVD	Tectura persona - abundance (#/m ²)								Tectura persona - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	16.667	16.667	6	0.000	0.000	+	0.2378	6	1.242	1.242	6	0.000	0.000	+	0.3932
1642C/833	1	6	10.000	10.000	4	5.000	5.000	+	0.7486	6	0.915	0.915	4	2.783	2.783	+	0.6443
4537C/979	1	6	40.000	12.111	6	0.000	0.000	+	0.0073	6	2.428	0.712	6	0.000	0.000	+	0.0008
Habitat Means			22.222	12.926		1.667	1.667	+			1.528	0.956		0.928	0.928	+	
Fisher's		Power	---		Power-50%	---		P-value	0.0078	Power	---		Power-50%	---		P-value	0.0032
Stouffer's		Power	---		Power-50%	0.298		P-value	0.0034	Power	---		Power-50%	---		P-value	0.0025
19C/19	2	6	13.333	13.333	6	5.000	5.000	+	0.5728	6	5.028	5.028	6	0.655	0.655	+	0.8679
1642C/833	2	6	20.000	12.910	4	0.000	0.000	+	0.2308	6	2.167	1.172	4	0.000	0.000	+	0.0783
4537C/979	2	6	1.667	1.667	6	15.000	15.000	-	0.3691	6	0.087	0.087	6	0.968	0.968	-	0.8440
Habitat Means			11.667	9.303		6.667	6.667	+			2.427	2.096		0.541	0.541	+	
Fisher's		Power	0.150		Power-50%	0.382		P-value	0.3003	Power	0.810		Power-50%	0.742		P-value	0.1602
Stouffer's		Power	0.001		Power-50%	0.430		P-value	0.5124	Power	0.000		Power-50%	0.732		P-value	0.2349
19C/19	3	4	2.500	2.500	6	1.667	1.667	+	0.7791	4	0.223	0.225	6	0.383	0.383	-	0.8498
1642C/833	3	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	3	3	0.000	0.000	6	0.000	0.000	o	1.0000	3	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.833	0.833		0.556	0.556	-			0.075	0.075		0.128	0.128	-	
Fisher's		Power	---		Power-50%	---		P-value	0.5883	Power	---		Power-50%	---		P-value	0.6114
Stouffer's		Power	---		Power-50%	---		P-value	0.4709	Power	---		Power-50%	---		P-value	0.4803

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

Table D-75, Page 3, December 21, 1994

Site Pair	MVD	Tectura scutum - abundance (#/m ²)								Tectura scutum - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's		Power	---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
19C/19	2	6	3.333	2.108	6	0.000	0.000	+	0.1747	6	1.295	0.897	6	0.000	0.000	-	0.1753
1642C/833	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	2	6	26.667	9.888	6	16.667	8.028	+	0.4755	6	4.818	3.021	6	1.578	0.687	-	0.5266
Habitat Means			10.000	3.999		5.556	2.676	+			2.038	1.306		0.526	0.229	+	
Fisher's		Power	0.133		Power-50%	0.153		P-value	0.1661	Power	0.044		Power-50%	0.038		P-value	0.1779
Stouffer's		Power	0.019		Power-50%	0.054		P-value	0.1706	Power	0.008		Power-50%	0.011		P-value	0.1884
19C/19	3	4	25.000	12.583	6	0.000	0.000	-	0.0637	4	3.352	2.594	6	0.000	0.000	+	0.0633
1642C/833	3	5	0.000	0.000	4	7.500	7.500	-	0.3910	5	0.000	0.000	4	2.160	2.160	-	0.3910
4537C/979	3	3	26.667	21.858	6	38.333	18.871	-	0.8616	3	1.433	1.115	6	4.295	2.298	-	0.8507
Habitat Means			17.222	11.480		15.278	8.790	-			1.595	1.236		2.152	1.486	-	
Fisher's		Power	0.048		Power-50%	0.007		P-value	0.5421 _{xy}	Power	0.033		Power-50%	0.006		P-value	0.5389 _x
Stouffer's		Power	0.104		Power-50%	0.009		P-value	0.4708	Power	0.082		Power-50%	0.008		P-value	0.4665

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

Table D-75. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1990. (Continued.)

Balanomorphs - abundance (#/m^2)										Balanomorphs - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	503.333	399.305	6	231.667	195.063	+	0.9149	6	36.835	23.993	6	3.398	2.121	+	0.8088		
1642C/833	1	6	3.333	3.333	4	5252.500	4856.304	-	0.0012	6	0.158	0.158	4	243.025	210.608	-	0.0004		
4537C/979	1	6	1080.000	860.407	6	296.667	278.887	+	0.1809	6	60.538	46.153	6	105.012	102.278	-	0.3691		
Habitat Means			528.889	421.015		1926.945	1776.751	+			32.510	23.435		117.145	105.002	-			
Fisher's	Power		0.153		Power-50%	0.094	P-value	0.3829 _{xy}		Power	---		Power-50%	---	P-value	0.0015			
Stouffer's	Power		0.110		Power-50%	0.125	P-value	0.6567		Power	---		Power-50%	---	P-value	0.0085			
19C/19	2	6	8053.900	6406.477	6	308.333	216.047	+	0.2236	6	422.948	388.429	6	18.157	9.946	+	0.4737		
1642C/833	2	6	1966.667	848.833	4	32997.500	24021.537	-	0.1120	6	228.692	101.606	4	1353.713	753.887	-	0.3009		
4537C/979	2	6	826.667	443.649	6	1745.000	1427.370	-	0.7974	6	524.030	262.096	6	24.230	11.795	-	0.3447		
Habitat Means			3615.745	2566.320		11683.611	8554.985	-			391.890	250.680		465.367	258.543	-			
Fisher's	Power		0.000		Power-50%	0.014	P-value	0.2500		Power	0.006		Power-50%	0.008	P-value	0.3472	y		
Stouffer's	Power		0.000		Power-50%	0.054	P-value	0.2549		Power	0.033		Power-50%	0.031	P-value	0.3147			
19C/19	3	4	932.500	582.543	6	2835.000	2029.548	-	0.4891	4	1454.630	1438.717	6	134.163	107.305	+	0.7619		
1642C/833	3	5	3462.000	3126.048	4	35622.500	35432.684	-	0.8284	5	373.298	315.635	4	348.795	347.043	+	0.9031		
4537C/979	3	3	163.333	158.360	6	841.667	633.443	-	0.6501	3	40.607	40.607	6	37.482	34.643	-	0.5037		
Habitat Means			1519.278	1288.984		13099.722	12698.558	-			622.845	598.320		173.480	162.997	-			
Fisher's	Power		0.000		Power-50%	0.062	P-value	0.3371		Power	0.040		Power-50%	0.017	P-value	0.3928			
Stouffer's	Power		0.000		Power-50%	0.052	P-value	0.2534		Power	0.084		Power-50%	0.010	P-value	0.2428			

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

z: Only one site pair.

Chthamalus dalli - abundance (#/m^2)										Chthamalus dalli - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	46.667	29.515	6	198.333	196.340	-	0.6712	6	0.990	0.753	6	1.993	1.987	-	0.5585		
1642C/833	1	6	0.000	0.000	4	3435.000	3231.786	-	0.0001	6	0.000	0.000	4	35.173	32.387	-	0.0034		
4537C/979	1	6	5.000	5.000	6	90.000	86.062	-	0.4333	6	0.028	0.028	6	1.490	1.425	-	0.3979		
Habitat Means			17.222	11.505		1241.111	1171.396	-			0.339	0.260		12.885	11.933	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0003		Power	---		Power-50%	---	P-value	0.0050			
Stouffer's	Power		---		Power-50%	0.169	P-value	0.0042		Power	---		Power-50%	---	P-value	0.0118			
19C/19	2	6	456.667	430.958	6	271.667	219.642	+	0.9269	6	3.910	3.771	6	1.832	1.553	-	0.9824		
1642C/833	2	6	336.667	164.816	4	27627.500	21121.297	-	0.0270	6	3.452	1.524	4	239.715	153.837	-	0.0524		
4537C/979	2	6	130.000	77.889	6	1451.667	1447.670	-	0.5158	6	1.538	1.092	6	11.678	11.672	-	0.3989		
Habitat Means			307.778	224.554		9783.611	7596.203	-			2.967	2.129		84.408	57.354	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0505		Power	---		Power-50%	---	P-value	0.0652			
Stouffer's	Power		---		Power-50%	0.446	P-value	0.0570		Power	---		Power-50%	---	P-value	0.0514			
19C/19	3	4	195.000	191.681	6	785.000	544.725	-	0.3101	4	2.550	2.550	6	4.550	2.512	-	0.2526		
1642C/833	3	5	1772.000	1769.501	4	33970.000	33813.504	-	0.2401	5	9.018	8.971	4	267.860	266.921	-	0.2558		
4537C/979	3	3	53.333	53.333	6	108.333	96.451	-	0.7306	3	0.960	0.960	6	1.905	1.716	-	0.6269		
Habitat Means			673.444	671.505		11621.111	11484.893	-			4.176	4.160		91.438	90.383	-			
Fisher's	Power		0.000		Power-50%	0.107	P-value	0.1254		Power	0.000		Power-50%	0.077	P-value	0.1026			
Stouffer's	Power		0.001		Power-50%	0.186	P-value	0.1322		Power	0.001		Power-50%	0.177	P-value	0.1056			

Table D-75. Page 5. December 21, 1994

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-75. Page 5. December 21, 1994

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

Table D-75. Page 6. December 21, 1994

Table D-75. Invertebrate Abundance and Biomass. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	146.667	87.165	6	8.333	6.540	+	0.2114	6	26.727	15.712	6	0.638	0.575	+	0.3119		
1642C/833	1	6	3.333	3.333	4	1372.500	1203.269	-	0.0014	6	0.158	0.158	4	203.650	174.565	-	0.0005		
4537C/979	1	6	335.000	222.407	6	180.000	172.124	-	0.1374	6	25.243	16.187	6	98.640	96.429	-	0.2755		
Habitat Means			161.667	104.302		520.278	460.644	+			17.376	10.686		100.976	90.523	-			
Fisher's			Power	0.131		Power-50%	0.144	P-value	0.1310 _{xy}	Power	---			Power-50%	---	P-value	0.0019		
Stouffer's			Power	0.026		Power-50%	0.148	P-value	0.4842	Power	---			Power-50%	---	P-value	0.0102		
19C/19	2	6	280.000	161.472	6	3.333	3.333	+	0.0267	6	31.388	20.790	6	0.263	0.263	-	0.0472		
1642C/833	2	6	933.333	424.387	4	3960.000	2492.763	-	0.1894	6	184.998	78.271	4	836.497	513.794	-	0.3915		
4537C/979	2	6	515.000	322.115	6	11.667	5.426	-	0.0576	6	214.575	135.889	6	2.478	1.381	+	0.1010		
Habitat Means			576.111	302.658		1325.000	833.841	+			143.654	78.317		279.746	171.813	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0142 _y	Power	---			Power-50%	---	P-value	0.0308 _y		
Stouffer's			Power	---		Power-50%	0.103	P-value	0.0617	Power	---			Power-50%	---	P-value	0.0692		
19C/19	3	4	20.000	12.247	6	23.333	21.396	-	0.7336	4	1.132	0.708	6	1.535	1.495	-	0.6757		
1642C/833	3	5	1116.000	1007.197	4	1175.000	1171.669	-	0.4033	5	336.704	297.239	4	65.410	65.210	-	0.3036		
4537C/979	3	3	100.000	100.000	6	66.667	64.687	-	0.8019	3	39.270	39.270	6	28.543	27.700	+	0.8953		
Habitat Means			412.000	373.148		421.667	419.251	-			125.702	112.406		31.829	31.468	+			
Fisher's			Power	0.015		Power-50%	0.155	P-value	0.3976	Power	0.036			Power-50%	0.104	P-value	0.4009		
Stouffer's			Power	0.024		Power-50%	0.233	P-value	0.3900	Power	0.073			Power-50%	0.196	P-value	0.3106		

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	235.000	229.023	6	23.333	15.846	+	0.8052	6	7.523	7.161	6	0.753	0.679	-	0.7200		
1642C/833	1	6	0.000	0.000	4	95.000	75.443	-	0.0425	6	0.000	0.000	4	2.705	2.308	-	0.0697		
4537C/979	1	6	565.000	497.257	6	15.000	9.574	+	0.2040	6	31.628	28.245	6	2.082	1.638	-	0.4846		
Habitat Means			266.667	242.093		44.444	33.621	+			13.050	11.802		1.847	1.542	-			
Fisher's			Power	0.006		Power-50%	0.012	P-value	0.3770 _x	Power	0.004			Power-50%	0.012	P-value	0.5503 _x		
Stouffer's			Power	0.006		Power-50%	0.017	P-value	0.4380	Power	0.004			Power-50%	0.016	P-value	0.5757		
19C/19	2	6	3941.116	3073.729	6	15.000	13.102	+	0.0409	6	359.718	344.277	6	0.670	0.662	+	0.0984		
1642C/833	2	6	501.667	491.680	4	317.500	284.879	+	0.6870	6	31.170	30.755	4	20.222	19.630	+	0.8087		
4537C/979	2	6	10.000	5.164	6	253.333	216.035	-	0.3311	6	1.258	1.169	6	10.035	6.001	-	0.4114		
Habitat Means			1484.261	1190.191		195.278	171.339	+			130.715	125.400		10.309	8.764	-			
Fisher's			Power	0.031		Power-50%	0.219	P-value	0.1134	Power	0.015			Power-50%	0.122	P-value	0.2173		
Stouffer's			Power	0.056		Power-50%	0.372	P-value	0.5351	Power	0.048			Power-50%	0.288	P-value	0.5561		
19C/19	3	4	275.000	275.000	6	1771.667	1739.748	-	0.2714	4	10.675	10.675	6	109.655	108.666	-	0.2438		
1642C/833	3	5	166.000	88.521	4	305.000	295.085	-	0.9206	5	13.388	10.387	4	12.905	12.792	+	0.9953		
4537C/979	3	3	0.000	0.000	6	15.000	15.000	-	0.9919	3	0.000	0.000	6	5.355	5.355	-	0.9534		
Habitat Means			147.000	121.174		697.222	683.278	-			8.021	7.021		42.638	42.271	-			
Fisher's			Power	0.047		Power-50%	0.183	P-value	0.3256	Power	0.018			Power-50%	0.048	P-value	0.3146		
Stouffer's			Power	0.145		Power-50%	0.007	P-value	0.3658	Power	0.074			Power-50%	0.001	P-value	0.3631		

x At least one site pair. P-value is based on appropriate direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-75, Page 7. December 21, 1994

Table D-75, Page 8. December 21, 1994

Table D-75. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1990. (Continued.)

Site Pair	MVD	Lacuna spp. - abundance (#/m ²)								Lacuna spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.015	0.015	6	0.000	0.000	-	0.3632
Habitat Means			0.556	0.556		0.000	0.000	+			0.005	0.005		0.000	0.000	-	
Fisher's		Power	---		Power-50%	---		P-value	0.4028	Power	---		Power-50%	---		P-value	0.4028
Stouffer's		Power	---		Power-50%	---		P-value	0.2231	Power	---		Power-50%	---		P-value	0.2231
19C/19	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632
1642C/833	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.000	0.000	-	
Fisher's		Power	---		Power-50%	---		P-value	0.4028	Power	---		Power-50%	---		P-value	0.4028
Stouffer's		Power	---		Power-50%	---		P-value	0.4063	Power	---		Power-50%	---		P-value	0.4063
19C/19	3	4	0.000	0.000	6	225.000	143.009	-	0.1747	4	0.000	0.000	6	0.433	0.309	-	0.1758
1642C/833	3	5	2.000	2.000	4	0.000	0.000	+	0.3739	5	0.032	0.032	4	0.000	0.000	-	0.3739
4537C/979	3	3	10.000	10.000	6	63.333	42.791	-	0.5283	3	0.043	0.043	6	0.220	0.138	-	0.5862
Habitat Means			4.000	4.000		96.111	61.933	-			0.025	0.025		0.218	0.149	-	
Fisher's		Power	0.173		Power-50%	---		P-value	0.2416	Power	0.076		Power-50%	---		P-value	0.2584
Stouffer's		Power	0.004		Power-50%	---		P-value	0.3242	Power	0.001		Power-50%	---		P-value	0.3509

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

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Site Pair	MVD	Littorina spp. - abundance (#/m ²)								Littorina spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	270.000	147.332	6	43.333	21.705	+	0.3467	6	25.895	19.672	6	2.378	1.372	+	0.5982
1642C/833	1	6	146.667	89.132	4	1120.000	255.506	-	0.0111	6	6.665	3.097	4	18.545	4.787	-	0.1006
4537C/979	1	6	2631.667	587.551	6	420.000	147.580	+	0.1140	6	184.043	43.174	6	32.783	14.155	+	0.0153
Habitat Means			1016.111	274.672		527.778	142.597	+			72.201	21.981		17.902	6.771	+	
Fisher's		Power	0.041		Power-50%	0.036		P-value	0.1602x	Power	---		Power-50%	---		P-value	0.0563
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.3622	Power	---		Power-50%	---		P-value	0.0834
19C/19	2	6	1177.217	482.836	6	476.667	208.960	+	0.4069	6	47.170	21.651	6	39.380	33.971	-	0.8435
1642C/833	2	6	1111.667	268.855	4	8805.000	6045.804	-	0.5366	6	37.487	9.859	4	25.630	11.908	-	0.7908
4537C/979	2	6	2088.333	1437.207	6	666.667	602.410	-	0.4457	6	56.575	42.571	6	30.605	28.329	-	0.5173
Habitat Means			1459.072	729.633		3316.111	2285.725	+			47.077	24.694		31.872	24.736	-	
Fisher's		Power	0.005		Power-50%	0.018		P-value	0.3386 y	Power	0.003		Power-50%	0.013		P-value	0.3923
Stouffer's		Power	0.024		Power-50%	0.054		P-value	0.2881	Power	0.015		Power-50%	0.049		P-value	0.2358
19C/19	3	4	942.500	665.938	6	200.000	159.018	+	0.5484	4	87.505	70.424	6	2.662	2.341	+	0.4961
1642C/833	3	5	1978.000	1230.916	4	2140.000	1813.124	-	0.5619	5	37.268	29.558	4	7.047	5.159	+	0.8019
4537C/979	3	3	570.000	570.000	6	203.333	203.333	+	0.5626	3	11.047	11.047	6	3.338	3.338	+	0.5535
Habitat Means			1163.500	822.285		847.778	725.158	+			45.273	37.010		4.349	3.613	+	
Fisher's		Power	0.052		Power-50%	0.102		P-value	0.4478	Power	0.054		Power-50%	0.072		P-value	0.3040
Stouffer's		Power	0.109		Power-50%	0.208		P-value	0.3581	Power	0.125		Power-50%	0.193		P-value	0.2137

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

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Table D-75. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1990. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	220.000	131.934	6	28.333	16.617	+	0.1783	6	25.292	19.282	6	2.132	1.359	+	0.3745		
1642C/833	1	6	140.000	86.062	4	805.000	135.247	-	0.0149	6	6.535	3.028	4	15.105	4.148	-	0.1722		
4537C/979	1	6	2625.000	586.121	6	288.333	121.090	-	0.0578	6	183.945	43.148	6	29.088	14.717	-	0.0127		
Habitat Means			995.000	268.039		373.889	90.985				71.924	21.819		15.442	6.741				
Fisher's			Power	---		Power-50%	---		P-value 0.0634x	Power	---			Power-50%	---		P-value 0.0338		
Stouffer's			Power	0.000		Power-50%	0.000		P-value 0.2195	Power	---			Power-50%	---		P-value 0.0479		
19C/19	2	6	565.550	135.413	6	280.000	148.549	+	0.7726	6	42.830	22.518	6	35.432	34.586	+	0.8545		
1642C/833	2	6	795.000	265.452	4	912.500	493.666	-	0.9152	6	33.170	10.753	4	6.132	2.867	-	0.5499		
4537C/979	2	6	1738.333	1465.602	6	571.667	569.669	-	0.2431	6	50.255	43.354	6	27.747	27.735	-	0.5777		
Habitat Means			1032.961	622.156		588.056	403.961	+			42.085	25.542		23.104	21.729	+			
Fisher's			Power	0.000		Power-50%	0.004		P-value 0.2905	Power	0.000			Power-50%	0.006		P-value 0.3430		
Stouffer's			Power	0.001		Power-50%	0.029		P-value 0.1580	Power	0.001			Power-50%	0.031		P-value 0.2117		
19C/19	3	4	910.000	673.622	6	71.667	57.932	+	0.3510	4	87.325	70.459	6	1.008	0.988	+	0.1502		
1642C/833	3	5	1136.000	1008.279	4	45.000	30.687	-	0.4183	5	31.948	28.592	4	0.163	0.094	-	0.3401		
4537C/979	3	3	396.667	396.667	6	75.000	75.000	-	0.5417	3	9.093	9.093	6	1.217	1.217	-	0.5532		
Habitat Means			814.222	692.856		63.889	54.540	+			42.789	36.048		0.796	0.766	+			
Fisher's			Power	0.087		Power-50%	0.131		P-value 0.1615	Power	---			Power-50%	---		P-value 0.0798		
Stouffer's			Power	0.143		Power-50%	0.253		P-value 0.1267	Power	---			Power-50%	---		P-value 0.0919		

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	50.000	32.558	6	15.000	8.466	+	0.9734	6	0.603	0.434	6	0.247	0.157	+	0.9196		
1642C/833	1	6	6.667	4.216	4	315.000	134.567	-	0.0027	6	0.130	0.097	4	3.440	1.635	-	0.0159		
4537C/979	1	6	6.667	3.333	6	131.667	125.683	-	0.3896	6	0.098	0.057	6	3.695	3.084	-	0.1983		
Habitat Means			21.111	13.369		153.889	89.572	-			0.277	0.196		2.461	1.625	-			
Fisher's			Power	---		Power-50%	---		P-value 0.0067	Power	---			Power-50%	---		P-value 0.0166		
Stouffer's			Power	---		Power-50%	0.741		P-value 0.0158	Power	---			Power-50%	---		P-value 0.0136		
19C/19	2	6	611.667	441.357	6	196.667	125.981	+	0.4806	6	4.340	2.170	6	3.948	2.512	+	0.4503		
1642C/833	2	6	316.667	134.156	4	7892.500	5559.518	-	0.1265	6	4.317	2.407	4	19.498	11.233	-	0.4759		
4537C/979	2	6	350.000	188.379	6	95.000	55.663	+	0.4745	6	6.320	3.419	6	2.858	1.737	-	0.7901		
Habitat Means			426.111	254.631		2728.056	1913.721	+			4.992	2.665		8.768	5.161	+			
Fisher's			Power	0.004		Power-50%	0.006		P-value 0.4391 y	Power	0.002			Power-50%	0.009		P-value 0.4957 y		
Stouffer's			Power	0.015		Power-50%	0.026		P-value 0.4799	Power	0.010			Power-50%	0.031		P-value 0.4689		
19C/19	3	4	32.500	18.875	6	128.333	101.240	-	0.6556	4	0.180	0.146	6	1.653	1.356	-	0.6971		
1642C/833	3	5	842.000	610.642	4	2095.000	1784.575	-	0.3443	5	5.320	3.258	4	6.885	5.094	-	0.6908		
4537C/979	3	3	173.333	173.333	6	128.333	128.333	+	0.6246	3	1.953	1.953	6	2.122	2.122	-	0.9676		
Habitat Means			349.278	267.617		783.889	671.383	+			2.484	1.786		3.553	2.857	+			
Fisher's			Power	0.001		Power-50%	0.184		P-value 0.3697	Power	0.002			Power-50%	0.188		P-value 0.4592		
Stouffer's			Power	0.003		Power-50%	0.250		P-value 0.4365	Power	0.006			Power-50%	0.252		P-value 0.3723		

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

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Table D-75. Invertebrate Abundance and Biomass. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

Mytilus edulis - abundance (#/m^2)										Mytilus edulis - biomass (g/m^2)									
site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	241.667	233.715	6	0.000	0.000	+	0.1075	6	75.432	74.119	6	0.000	0.000	+	0.1085		
1642C/833	1	6	3.333	2.108	4	7.500	7.500	-	0.9681	6	0.002	0.002	4	0.113	0.113	-	0.4393		
4537C/979	1	6	380.000	198.578	6	755.000	749.007	-	0.0935	6	37.913	22.205	6	657.540	651.551	-	0.4416		
Habitat Means			208.333	144.800		254.167	252.169	-			37.782	32.109		219.218	217.221	-			
Fisher's	Power		0.019		Power-50%	0.089	P-value	0.2619		Power	0.048		Power-50%	0.025	P-value	0.4051			
Stouffer's	Power		0.042		Power-50%	0.122	P-value	0.1575		Power	0.085		Power-50%	0.061	P-value	0.2754			
19C/19	2	6	4119.450	1757.987	6	1296.667	982.726	+	0.0939	6	825.223	599.663	6	3.298	2.106	-	0.0613		
1642C/833	2	6	856.667	419.950	4	12447.500	5555.991	-	0.2027	6	235.378	158.100	4	2222.738	1796.465	-	0.6028		
4537C/979	2	6	3268.333	1252.042	6	463.333	153.594	-	0.3332	6	1395.233	642.176	6	276.275	130.040	+	0.7648		
Habitat Means			2748.150	1143.326		4735.833	2230.770	+			818.611	466.646		834.104	642.870	+			
Fisher's	Power		0.000		Power-50%	0.001	P-value	0.1283	y	Power	0.000		Power-50%	0.000	P-value	0.1421	y		
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.2620		Power	0.000		Power-50%	0.000	P-value	0.3123			
19C/19	3	4	2291.675	1620.033	6	2945.000	1457.161	-	0.7277	4	24.391	16.079	6	8.613	3.246	-	0.8535		
1642C/833	3	5	1500.000	705.160	4	412.500	234.534	-	0.5778	5	575.110	257.205	4	1.872	0.802	-	0.0379		
4537C/979	3	3	2050.000	1300.013	6	1786.667	1474.654	-	0.8979	3	549.280	548.310	6	132.297	128.917	+	0.9124		
Habitat Means			1947.225	1208.402		1714.722	1055.450	+			382.927	273.865		47.594	44.322	+			
Fisher's	Power		0.001		Power-50%	0.000	P-value	0.5451		Power	---		Power-50%	---	P-value	0.0823			
Stouffer's	Power		0.002		Power-50%	0.002	P-value	0.3885		Power	0.001		Power-50%	0.000	P-value	0.1281			

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

Table D-75, Page 13. December 21, 1994

Turtonia minuta - abundance (#/m^2)										Turtonia minuta - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	1	6	8.333	6.540	6	0.000	0.000	-	0.1868	6	0.012	0.010	6	0.000	0.000	+	0.1927		
Habitat Means			2.778	2.180		0.000	0.000	-			0.004	0.003		0.000	0.000	+			
Fisher's	Power		0.044		Power-50%	0.025	P-value	0.2759		Power	0.018		Power-50%	0.016	P-value	0.2810			
Stouffer's	Power		0.229		Power-50%	0.091	P-value	0.1343		Power	0.134		Power-50%	0.057	P-value	0.1375			
19C/19	2	6	0.000	0.000	6	6.667	4.216	-	0.1747	6	0.000	0.000	6	0.010	0.006	-	0.4025		
1642C/833	2	6	0.000	0.000	4	10.000	7.071	-	0.1916	6	0.000	0.000	4	0.010	0.010	-	0.4478		
4537C/979	2	6	26.667	10.220	6	5.000	5.000	-	0.0853	6	0.018	0.009	6	0.015	0.015	+	0.7790		
Habitat Means			8.889	3.407		7.222	5.429	-			0.006	0.003		0.012	0.010	-			
Fisher's	Power		0.864		Power-50%	0.005	P-value	0.1400xy		Power	0.633		Power-50%	0.001	P-value	0.3039			
Stouffer's	Power		0.691		Power-50%	0.057	P-value	0.6780		Power	0.749		Power-50%	0.032	P-value	0.3642			
19C/19	3	4	5.000	5.000	6	585.000	387.365	-	0.2343	4	0.005	0.005	6	0.370	0.277	-	0.0975		
1642C/833	3	5	4.000	4.000	4	7.500	7.500	-	0.8141	5	0.004	0.004	4	0.005	0.005	-	0.9964		
4537C/979	3	3	86.667	67.659	6	40.000	22.361	-	0.6944	3	0.070	0.047	6	0.047	0.030	+	0.5862		
Habitat Means			31.889	25.553		210.833	139.075	-			0.026	0.019		0.141	0.104	-			
Fisher's	Power		0.089		Power-50%	0.184	P-value	0.3265		Power	0.022		Power-50%	0.316	P-value	0.2288			
Stouffer's	Power		0.098		Power-50%	0.167	P-value	0.4626		Power	0.041		Power-50%	0.279	P-value	0.5085			

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

Table D-75, Page 14. December 21, 1994

Table D-75. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1990. (Continued.)

Pagurus spp. - abundance (#/m^2)										Pagurus spp. - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	1	6	6.667	6.667	6	0.000	0.000	+	0.3632	6	0.720	0.720	6	0.000	0.000	-	0.3632
Habitat Means			2.222	2.222		0.000	0.000	-			0.240	0.240		0.000	0.000	-	
Fisher's	Power		---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028	
Stouffer's	Power		---		Power-50%	---	P-value	0.2231		Power	---		Power-50%	---	P-value	0.2231	
19C/19	2	6	5.000	5.000	6	25.000	16.279	-	0.7142	6	0.752	0.752	6	0.913	0.621	-	0.5902
1642C/833	2	6	8.333	4.014	4	2.500	2.500	+	0.9238	6	0.435	0.232	4	0.213	0.213	+	0.5169
4537C/979	2	6	98.333	57.989	6	88.333	67.152	+	0.8546	6	10.105	4.138	6	7.982	6.081	-	0.4319
Habitat Means			37.222	22.334		38.611	20.644	-			3.764	1.707		3.036	2.305	-	
Fisher's	Power		0.005		Power-50%	0.254	P-value	0.6592 y		Power	0.052		Power-50%	0.308	P-value	0.3726	
Stouffer's	Power		0.006		Power-50%	0.238	P-value	0.4587		Power	0.014		Power-50%	0.271	P-value	0.2037	
19C/19	3	4	20.000	14.142	6	16.667	9.888	+	0.9535	4	1.803	1.672	6	0.648	0.502	+	0.8939
1642C/833	3	5	34.000	21.119	4	5.000	5.000	+	0.6262	5	2.314	1.466	4	0.135	0.135	+	0.3367
4537C/979	3	3	73.333	73.333	6	78.333	63.688	-	0.9363	3	2.580	2.580	6	10.647	7.964	-	0.8936
Habitat Means			42.444	36.198		33.333	26.192	+			2.232	1.906		3.810	2.867	-	
Fisher's	Power		0.056		Power-50%	0.349	P-value	0.5353		Power	0.019		Power-50%	0.177	P-value	0.3843 y	
Stouffer's	Power		0.067		Power-50%	0.403	P-value	0.4279		Power	0.018		Power-50%	0.273	P-value	0.3507	

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-75, Page 15, December 21, 1994

Nucella spp. - abundance (#/m^2)										Nucella spp. - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	4.212	4.212	-	0.3032
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		2.222	2.222	-			0.000	0.000		1.424	1.424	-	
Fisher's	Power		---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028	
Stouffer's	Power		---		Power-50%	---	P-value	0.4063		Power	---		Power-50%	---	P-value	0.4063	
19C/19	2	6	25.000	23.058	6	81.667	71.852	-	0.5277	6	49.483	45.204	6	69.423	55.822	-	0.6531
1642C/833	2	6	1.667	1.667	4	0.000	0.000	+	0.3632	6	3.930	3.930	4	0.000	0.000	+	0.9367
4537C/979	2	6	10.000	5.164	6	0.000	0.000	+	0.0800	6	25.612	14.740	6	0.000	0.000	+	0.5641
Habitat Means			12.222	9.963		27.222	23.951	+			26.342	21.291		23.141	18.607	-	
Fisher's	Power		0.463		Power-50%	0.219	P-value	0.1065 y		Power	0.593		Power-50%	0.207	P-value	0.5646	
Stouffer's	Power		---		Power-50%	0.302	P-value	0.0411		Power	0.771		Power-50%	0.293	P-value	0.3432	
19C/19	3	4	0.000	0.000	6	10.000	6.325	-	0.0548	4	0.000	0.000	6	16.017	9.304	-	0.0772
1642C/833	3	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	3	3	0.000	0.000	6	1.667	1.667	-	0.7605	3	0.000	0.000	6	6.723	6.723	-	0.3632
Habitat Means			0.000	0.000		3.889	2.664	-			0.000	0.000		7.580	5.342	-	
Fisher's	Power		0.814		Power-50%	---	P-value	0.1046		Power	---		Power-50%	---	P-value	0.0793	
Stouffer's	Power		0.903		Power-50%	---	P-value	0.2248		Power	0.753		Power-50%	---	P-value	0.1107	

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

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Table D-75. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1990. (Continued.)

Nucella lima - abundance (#/m ²)										Nucella lima - biomass (g/m ²)									
site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's									0.6552	Power	---			Power-50%	---		P-value	0.6552	
Stouffer's									0.5000	Power	---			Power-50%	---		P-value	0.5000	
19C/19	2	6	1.667	1.667	6	8.333	5.426	-	0.4111	6	3.687	3.687	6	11.707	7.423	-	0.5251		
1642C/833	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	2	6	6.667	4.944	6	0.000	0.000	-	0.1830	6	17.123	14.260	6	0.000	0.000	+	0.1765		
Habitat Means			2.778	2.204		2.778	1.809	.			6.937	5.982		3.902	2.474	+			
Fisher's									0.3565	Power	0.125			Power-50%	0.111		P-value	0.3349	
Stouffer's									0.1836	Power	0.282			Power-50%	0.131		P-value	0.1667	
19C/19	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
1642C/833	3	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	3	3	0.000	0.000	6	0.000	0.000	o	1.0000	3	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's									0.6552	Power	---			Power-50%	---		P-value	0.6552	
Stouffer's									0.5000	Power	---			Power-50%	---		P-value	0.5000	
* At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. z Only one site pair.																			
Nucella lamellosa - abundance (#/m ²)										Nucella lamellosa - biomass (g/m ²)									
site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	6.667	6.667	-	0.3632	6	0.000	0.000	6	4.72	4.272	-	0.3632		
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.00	0.000	o	1.0000		
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.00	0.000	o	1.0000		
Habitat Means			0.000	0.000		2.222	2.222	-			0.000	0.000		1.24	1.424	-			
Fisher's									0.4028	Power	---			Power-50%	---		P-value	0.4028	
Stouffer's									0.4063	Power	---			Power-50%	---		P-value	0.4063	
19C/19	2	6	23.333	23.333	6	73.333	73.333	-	0.8290	6	45.797	45.797	6	57.17	57.717	-	0.9868		
1642C/833	2	6	1.667	1.667	4	0.000	0.000	-	0.6849	6	3.930	3.930	4	0.00	0.000	-	0.5214		
4537C/979	2	6	3.333	3.333	6	0.000	0.000	-	0.5651	6	8.488	8.488	6	0.00	0.000	-	0.4610		
Habitat Means			9.444	9.444		24.444	24.444	.			19.405	19.405		19.39	19.239	-			
Fisher's									0.4527	Power	---			Power-50%	---		P-value	0.3142	
Stouffer's									0.2677	Power	---			Power-50%	---		P-value	0.1715	
19C/19	3	4	0.000	0.000	6	10.000	6.325	-	0.0548	4	0.000	0.000	6	16.17	9.304	-	0.0772		
1642C/833	3	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.00	0.000	o	1.0000		
4537C/979	3	3	0.000	0.000	6	1.667	1.667	-	0.7605	3	0.000	0.000	6	6.23	6.723	-	0.3632		
Habitat Means			0.000	0.000		3.889	2.664	-			0.000	0.000		7.180	5.342	-			
Fisher's									0.1046	Power	---			Power-50%	---		P-value	0.0793	
Stouffer's									0.2248	Power	0.759			Power-50%	---		P-value	0.1107	
* At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. z Only one site pair.																			

Table D-75. Page 18. December 21, 1994

Table D-75. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1990. (Continued.)

Site Pair	MVD	Amphipoda - abundance (#/m ²)							D	P	Amphipoda - biomass (g/m ²)							D	P
		N	C	SE	N	O	SE				N	C	SE	N	O	SE			
19C/19	1	6	1.667	1.667	6	0.000	0.000		+	0.3632	6	0.013	0.013	6	0.000	0.000		+	0.3632
1642C/833	1	6	0.000	0.000	4	0.000	0.000		o	1.0000	6	0.000	0.000	4	0.000	0.000		o	1.0000
4537C/979	1	6	1106.667	1096.685	6	5.000	3.416		+	0.3259	6	9.023	8.843	6	0.005	0.005		-	0.2619
Habitat Means			369.445	366.117		1.667	1.139		+			3.012	2.952		0.002	0.002		-	
Fisher's		Power	0.056		Power-50%	0.013	P-value	0.2085			Power	0.009		Power-50%	0.002	P-value	0.1814		
Stouffer's		Power	0.051		Power-50%	0.014	P-value	0.1445			Power	0.014		Power-50%	0.005	P-value	0.1195		
19C/19	2	6	12090.000	11966.088	6	110.000	50.728		+	0.2596	6	17.322	17.015	6	0.857	0.449		+	0.5133
1642C/833	2	6	0.000	0.000	4	140.000	140.000		-	0.3685	6	0.000	0.000	4	0.020	0.020		-	0.3910
4537C/979	2	6	2003.333	1631.075	6	1026.667	770.124		+	0.4384	6	1.758	1.385	6	2.030	1.097		-	0.6184
Habitat Means			4697.778	4532.388		425.556	320.284		+			6.360	6.133		0.969	0.522		-	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.2749			Power	0.063		Power-50%	0.000	P-value	0.4006	y	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.3043			Power	0.136		Power-50%	0.000	P-value	0.2553		
19C/19	3	4	11264.175	6061.414	6	536.667	293.629		+	0.0152	4	24.202	15.467	6	1.733	0.746		+	0.0876
1642C/833	3	5	64.000	46.861	4	27.500	9.465		+	0.8644	5	0.546	0.521	4	0.195	0.098		+	0.8056
4537C/979	3	3	6110.000	5712.804	6	3528.333	1888.870		+	0.8925	3	6.223	5.263	6	4.578	1.934		-	0.6975
Habitat Means			5812.725	3940.360		1364.167	730.655		+			10.324	7.084		2.169	0.926		-	
Fisher's		Power	---		Power-50%	---	P-value	0.0422			Power	0.000		Power-50%	0.000	P-value	0.1172		
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.2038			Power	0.000		Power-50%	0.000	P-value	0.1871		

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

Table D-75, Page 19, December 21, 1994

Site Pair	MVD	Isopoda - abundance (#/m ²)							D	P	Isopoda - biomass (g/m ²)							D	P
		N	C	SE	N	O	SE				N	C	SE	N	O	SE			
19C/19	1	6	5.000	2.236	6	11.667	7.923		-	0.7757	6	0.007	0.004	6	0.253	0.232		-	0.5085
1642C/833	1	6	0.000	0.000	4	32.500	18.875		-	0.1818	6	0.000	0.000	4	0.047	0.028		-	0.1821
4537C/979	1	6	15.000	9.574	6	0.000	0.000		+	0.0860	6	0.953	0.496	6	0.000	0.000		-	0.0763
Habitat Means			6.667	3.937		14.722	8.933		-			0.320	0.167		0.100	0.087		-	
Fisher's		Power	0.059		Power-50%	0.256	P-value	0.3419x			Power	0.005		Power-50%	0.057	P-value	0.2681xy		
Stouffer's		Power	0.000		Power-50%	0.314	P-value	0.7657			Power	0.000		Power-50%	0.087	P-value	0.7497		
19C/19	2	6	43.883	34.275	6	11.667	5.426		+	0.7742	6	1.486	1.212	6	0.237	0.130		+	0.7824
1642C/833	2	6	35.000	31.172	4	220.000	197.104		-	0.2096	6	0.032	0.025	4	0.163	0.156		-	0.6527
4537C/979	2	6	371.667	324.257	6	81.667	57.759		+	0.3782	6	1.923	1.469	6	1.630	1.007		-	0.7926
Habitat Means			150.183	129.901		104.445	86.763		+			1.147	0.902		0.677	0.431		-	
Fisher's		Power	0.064		Power-50%	0.115	P-value	0.4875			Power	0.021		Power-50%	0.048	P-value	0.6059		
Stouffer's		Power	0.060		Power-50%	0.133	P-value	0.4162			Power	0.022		Power-50%	0.085	P-value	0.4696		
19C/19	3	4	862.500	415.940	6	58.333	35.816		-	0.1232	4	21.497	13.820	6	0.053	0.029		+	0.0501
1642C/833	3	5	10.000	5.477	4	1052.500	1045.844		-	0.4869	5	1.448	1.034	4	0.642	0.501		+	0.9547
4537C/979	3	3	1263.333	848.711	6	138.333	59.072		+	0.3224	3	5.337	3.630	6	1.740	1.217		+	0.3826
Habitat Means			711.944	423.376		416.389	380.244		+			9.427	6.161		0.812	0.582		+	
Fisher's		Power	0.002		Power-50%	0.007	P-value	0.1341			Power	---		Power-50%	---	P-value	0.0585		
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1845			Power	0.000		Power-50%	0.000	P-value	0.1021		

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

Table D-75, Page 20, December 21, 1994

Table D-75. Invertebrate Abundance and Biomass. Prince William Sound. Exposed Rocky. June 1990. (Continued.)

Site Pair	MVD	Errant polychaetes - abundance (#/m ²)								Errant polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	1	6	75.000	67.169	6	3.333	3.333	-	0.2219	6	0.054	0.049	6	0.007	0.007	-	0.4446
Habitat Means			25.000	22.390		1.111	1.111	+			0.018	0.016		0.002	0.002	+	
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.3054		Power	0.000		Power-50%	0.000	P-value	0.4483	
Stouffer's	Power		0.003		Power-50%	0.018	P-value	0.1530		Power	0.000		Power-50%	0.003	P-value	0.2610	
19C/19	2	6	41.667	20.723	6	33.333	25.777	-	0.7866	6	0.082	0.046	6	0.034	0.053	-	0.3721
1642C/833	2	6	0.000	0.000	4	680.000	353.365	-	0.0649	6	0.000	0.000	4	4.595	2.685	-	0.0802
4537C/979	2	6	1151.667	425.382	6	35.000	18.753	+	0.0026	6	2.607	1.907	6	0.140	0.130	-	0.0085
Habitat Means			397.778	148.702		249.444	132.632	+			0.896	0.651		1.596	0.956	+	
Fisher's	Power	---			Power-50%	---	P-value	0.0186*		Power	---		Power-50%	---	P-value	0.0258**	
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0437		Power	---		Power-50%	---	P-value	0.0549	
19C/19	3	4	352.500	352.500	6	241.667	147.386	+	0.6398	4	0.517	0.517	6	0.085	0.053	+	0.8416
1642C/833	3	5	16.000	11.225	4	5.000	5.000	+	0.3923	5	0.022	0.022	4	0.000	0.000	+	0.5609
4537C/979	3	3	776.667	86.667	6	293.333	114.853	+	0.0985	3	7.023	6.320	6	0.000	0.000	+	0.3632
Habitat Means			381.722	150.131		180.000	89.080	+			2.521	2.286		0.028	0.018	+	
Fisher's	Power	---			Power-50%	---	P-value	0.0726		Power	0.042		Power-50%	0.027	P-value	0.2620	
Stouffer's	Power	---			Power-50%	0.010	P-value	0.0276		Power	0.000		Power-50%	0.000	P-value	0.1373	

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

z Only one site pair.

Table D-75, Page 21. December 21, 1994

Site Pair	MVD	Sedentary polychaetes - abundance (#/m ²)								Sedentary polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	1	6	85.000	60.978	6	1.667	1.667	+	0.0583	6	0.014	0.008	6	0.000	0.000	+	0.1430
Habitat Means			28.333	20.326		0.556	0.556	+			0.005	0.003		0.000	0.000	+	
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.1314		Power	0.000		Power-50%	0.000	P-value	0.2315	
Stouffer's	Power	---			Power-50%	0.002	P-value	0.0563		Power	0.000		Power-50%	0.000	P-value	0.1081	
19C/19	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
1642C/833	2	6	11.667	11.667	4	0.000	0.000	+	0.3632	6	0.012	0.012	4	0.000	0.000	+	0.5201
4537C/979	2	6	2380.000	1539.359	6	46.667	46.667	+	0.0015	6	0.339	0.125	6	0.187	0.187	+	0.0005
Habitat Means			797.222	517.009		15.556	15.556	+			0.117	0.046		0.062	0.062	+	
Fisher's	Power	---			Power-50%	---	P-value	0.0039		Power	---		Power-50%	---	P-value	0.0021	
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0010		Power	---		Power-50%	---	P-value	0.0006	
19C/19	3	4	4488.325	4467.240	6	101.667	90.200	+	0.1523	4	0.263	0.256	6	0.008	0.008	+	0.2564
1642C/833	3	5	62.000	59.532	4	0.000	0.000	+	0.3274	5	0.116	0.116	4	0.000	0.000	+	0.4265
4537C/979	3	3	1316.667	560.188	6	185.000	92.439	+	0.1556	3	1.658	1.155	6	0.630	0.501	+	0.0746
Habitat Means			1955.664	1695.653		95.556	60.880	+			0.679	0.514		0.213	0.170	+	
Fisher's	Power	---			Power-50%	---	P-value	0.0310		Power	---		Power-50%	---	P-value	0.0322	
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0210		Power	---		Power-50%	---	P-value	0.0149	

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

Table D-75, Page 22. December 21, 1994

Table D-75. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1990. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P		
19C/19	1	6	6.667	6.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632		
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	1	6	3481.667	2476.264	6	25.000	21.252	+	0.0176	6	0.883	0.504	6	0.013	0.013	+	0.0130		
Habitat Means			1162.778	827.644		8.333	7.084	+			0.295	0.168		0.004	0.004	+			
Fisher's	Power	---			Power-50%	---	P-value	0.0268		Power	---			Power-50%	---	P-value	0.0213		
Stouffer's	Power	---			Power-50%	0.002	P-value	0.0130		Power	---			Power-50%	---	P-value	0.0102		
19C/19	2	6	4603.883	2596.616	6	251.667	183.347	+	0.0157	6	2.899	1.738	6	0.327	0.321	+	0.0050		
1642C/833	2	6	35.000	31.172	4	242.500	119.330	-	0.1201	6	0.000	0.000	4	0.050	0.023	-	0.0640		
4537C/979	2	6	5381.667	1993.692	6	991.667	610.401	+	0.0245	6	2.312	1.280	6	0.468	0.322	+	0.0065		
Habitat Means			3340.183	1540.493		495.278	304.359	+			1.737	1.006		0.282	0.222	+			
Fisher's	Power	---			Power-50%	---	P-value	0.0049		Power	---			Power-50%	---	P-value	0.0006x		
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0384		Power	---			Power-50%	---	P-value	0.0168		
19C/19	3	4	3577.500	1290.287	6	531.667	331.194	+	0.0211	4	2.241	1.141	6	0.063	0.037	+	0.0080		
1642C/833	3	5	48.000	32.465	4	0.000	0.000	+	0.1184	5	0.022	0.017	4	0.000	0.000	+	0.1603		
4537C/979	3	3	2636.667	2406.729	6	865.000	512.528	+	0.2912	3	1.213	1.149	6	0.862	0.503	+	0.5429		
Habitat Means			2087.389	1243.160		465.556	281.241	-			1.159	0.769		0.308	0.180	-			
Fisher's	Power	---			Power-50%	---	P-value	0.0049		Power	---			Power-50%	---	P-value	0.0047		
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0127		Power	---			Power-50%	---	P-value	0.0304		

x At least one site pair p-value < 0.001 is observed due to overly small

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

z Only one site pair.

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Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	1063.333	573.037	6	293.333	199.327	+	0.7044	6	139.602	100.510	6	10.302	5.830	+	0.6770		
1642C/833	1	6	168.333	89.570	4	6487.500	5119.968	-	0.0109	6	7.903	3.848	4	270.305	210.316	-	0.0243		
4537C/979	1	6	9231.667	3177.109	6	1528.333	1135.689	+	0.0701	6	298.863	98.160	6	796.192	751.902	+	0.5732		
Habitat Means			3487.778	1279.905		2769.722	2151.661	+			148.789	67.506		358.933	322.683	+			
Fisher's	Power	0.000			Power-50%	0.000	P-value	0.1851x		Power	---			Power-50%	---	P-value	0.0588		
Stouffer's	Power	0.000			Power-50%	0.000	P-value	0.3459		Power	---			Power-50%	---	P-value	0.0745		
19C/19	2	6	30361.666	13275.623	6	2761.667	1235.733	+	0.0022	6	1384.187	685.375	6	136.308	72.793	+	0.0068		
1642C/833	2	6	4190.000	1199.422	4	56267.500	29993.984	-	0.0499	6	514.539	165.328	4	3618.377	1538.023	-	0.2191		
4537C/979	2	6	18853.334	5542.988	6	5570.000	3069.876	+	0.0717	6	2072.270	682.219	6	365.484	142.762	+	0.2519		
Habitat Means			17801.667	6672.678		21533.056	11433.198	+			1323.665	510.974		1373.390	584.526	+			
Fisher's	Power	---			Power-50%	---	P-value	0.0024xy		Power	---			Power-50%	---	P-value	0.0152y		
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0856		Power	0.000			Power-50%	0.000	P-value	0.1407		
19C/19	3	4	25577.500	8015.276	6	9168.333	2755.356	+	0.1637	4	1641.246	1398.241	6	167.564	105.379	+	0.3698		
1642C/833	3	5	7446.000	4372.570	4	39387.500	38564.551	-	0.8398	5	1007.765	475.101	4	901.588	533.520	+	0.5496		
4537C/979	3	3	19686.666	5875.243	6	11071.667	3342.069	+	0.4778	3	1033.944	513.912	6	225.725	170.165	+	0.1580		
Habitat Means			17570.055	6087.696		19875.833	14887.325	+			1227.652	795.751		431.626	269.688	+			
Fisher's	Power	0.000			Power-50%	0.000	P-value	0.1759y		Power	---			Power-50%	---	P-value	0.0873		
Stouffer's	Power	0.000			Power-50%	0.000	P-value	0.1946		Power	---			Power-50%	---	P-value	0.0442		

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

Table D 75, Page 21, December 21, 1994

Table D 75, Page 24, December 21, 1994

Table D-76. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	16.667	13.081	-	0.1834	6	0.000	0.000	6	1.162	1.003	-	0.6306		
1642C/833	1	6	16.667	6.667	4	82.500	32.755	-	0.0443	6	4.307	3.439	4	10.990	2.233	-	0.0185		
4537C/979	1	6	8.333	8.333	6	1.667	1.667	+	0.7460	6	0.957	0.957	6	0.485	0.485	-	0.8449		
Habitat Means			8.333	5.000		33.611	15.834	-			1.755	1.465		4.212	1.240	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0381	Power	---		Power-50%	---		P-value	0.0468		
Stouffer's		Power	0.000		Power-50%	0.595		P-value	0.1491	Power	0.003		Power-50%	0.240		P-value	0.1376		
19C/19	2	6	18.333	11.081	6	11.667	6.009	-	0.8682	6	1.673	1.080	6	3.630	2.059	-	0.8647		
1642C/833	2	4	57.500	34.731	4	20.000	4.082	-	0.6724	4	10.573	6.152	4	2.557	0.908	+	0.4143		
4537C/979	2	5	16.000	6.782	6	30.000	9.661	-	0.4045	5	1.410	0.682	6	2.907	1.149	-	0.4233		
Habitat Means			30.611	17.531		20.556	6.584	+			4.552	2.638		3.031	1.372	-			
Fisher's		Power	0.271		Power-50%	0.531		P-value	0.6360	Power	0.008		Power-50%	0.487		P-value	0.5126	y	
Stouffer's		Power	0.344		Power-50%	0.552		P-value	0.6746	Power	0.000		Power-50%	0.541		P-value	0.3730		
19C/19	3	4	5.000	2.887	5	64.000	38.549	-	0.0789	4	0.500	0.290	5	8.356	5.415	-	0.0890		
1642C/833	3	4	5.000	2.887	3	33.333	33.333	-	0.4423	4	3.245	2.991	3	1.930	1.930	+	0.7946		
4537C/979	3	3	26.667	21.858	5	12.000	5.831	+	0.6756	3	3.400	2.562	5	1.310	0.610	+	0.6657		
Habitat Means			12.222	9.211		36.444	25.904	-			2.382	1.948		3.865	2.652	+			
Fisher's		Power	0.347		Power-50%	0.188		P-value	0.1123	Power	0.009		Power-50%	0.113		P-value	0.6581	xy	
Stouffer's		Power	0.278		Power-50%	0.211		P-value	0.3169	Power	0.014		Power-50%	0.125		P-value	0.4830		

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-76, Page 1, December 21, 1994

Lottia pelta - abundance (#/m ²)										Lottia Pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.140	0.140	-	0.3632		
1642C/833	1	6	6.667	6.667	4	30.000	21.213	-	0.2891	6	3.568	3.568	4	3.638	2.512	-	0.3735		
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			2.222	2.222		11.111	8.182	-			1.189	1.189		1.259	0.884	-			
Fisher's	Power		0.248		Power-50%	---		P-value	0.1932	Power	0.151		Power-50%	---		P-value	0.2270		
Stouffer's	Power		0.005		Power-50%	---		P-value	0.2280	Power	0.000		Power-50%	---		P-value	0.2534		
19C/19	2	6	5.000	3.416	6	3.333	3.333	+	0.8494	6	0.288	0.212	6	1.928	1.928	-	0.7842		
1642C/833	2	4	22.500	16.520	4	7.500	7.500	+	0.1710	4	6.663	4.063	4	1.058	1.058	+	0.3675		
4537C/979	2	5	8.000	5.831	6	5.000	3.416	+	0.7448	5	0.944	0.578	6	0.617	0.532	+	0.7668		
Habitat Means			11.833	8.589		5.278	4.750	+			2.632	1.618		1.201	1.173	+			
Fisher's	Power		0.017		Power-50%	0.464		P-value	0.1969	Power	0.033		Power-50%	0.643		P-value	0.3903		
Stouffer's	Power		0.025		Power-50%	0.494		P-value	0.1640	Power	0.037		Power-50%	0.630		P-value	0.2713		
19C/19	3	4	2.500	2.500	5	50.000	40.373	-	0.1314	4	0.233	0.232	5	6.260	5.630	-	0.1938		
1642C/833	3	4	2.500	2.500	3	0.000	0.000	-	0.9426	4	3.050	3.050	3	0.000	0.000	-	0.5560		
4537C/979	3	3	23.333	23.333	5	4.000	2.449	-	0.5620	3	2.807	2.807	5	0.686	0.459	+	0.6679		
Habitat Means			9.444	9.444		18.000	14.274	+			2.030	2.030		2.315	2.030	+			
Fisher's	Power		0.391		Power-50%	---		P-value	0.6524 y	Power	0.275		Power-50%	---		P-value	0.5493 y		
Stouffer's	Power		0.567		Power-50%	---		P-value	0.4497	Power	0.419		Power-50%	---		P-value	0.3812		

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-76, Page 2, December 21, 1994

Table D-76. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, August 1990. (Continued.)

Tectura persona - abundance (#/m ²)										Tectura persona - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	13.333	13.333	-	0.1906	6	0.000	0.000	6	1.022	1.022	-	0.2737		
1642C/833	1	6	10.000	5.164	4	0.000	0.000	+	0.3759	6	0.738	0.387	4	0.000	0.000	+	0.4765		
4537C/979	1	6	8.333	8.333	6	1.667	1.667	+	0.5079	6	0.957	0.957	6	0.485	0.485	+	0.6103		
Habitat Means			6.111	4.499		5.000	5.000	-			0.565	0.448		0.502	0.502	-			
Fisher's		Power	0.707		Power-50%	0.377	P-value	0.3921		Power	0.281		Power-50%	0.316	P-value	0.4770			
Stouffer's		Power	0.718		Power-50%	0.550	P-value	0.2619		Power	0.271		Power-50%	0.518	P-value	0.3148			
19C/19	2	6	0.000	0.000	6	5.000	5.000	-	0.3632	6	0.000	0.000	6	0.875	0.875	-	0.3632		
1642C/833	2	4	10.000	10.000	4	0.000	0.000	+	0.3910	4	2.082	2.082	4	0.000	0.000	+	0.3910		
4537C/979	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			3.333	3.333		1.667	1.667	-			0.694	0.694		0.292	0.292	-			
Fisher's		Power	---		Power-50%	---	P-value	0.5143	y	Power	---		Power-50%	---	P-value	0.5143	y		
Stouffer's		Power	---		Power-50%	---	P-value	0.5691		Power	---		Power-50%	---	P-value	0.5691			
19C/19	3	4	0.000	0.000	5	8.000	4.899	-	0.1778	4	0.000	0.000	5	0.576	0.356	-	0.1779		
1642C/833	3	4	0.000	0.000	3	0.000	0.000	o	1.0000	4	0.000	0.000	3	0.000	0.000	o	1.0000		
4537C/979	3	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		2.667	1.633	-			0.000	0.000		0.192	0.119	-			
Fisher's		Power	0.000		Power-50%	---	P-value	0.2678		Power	0.078		Power-50%	---	P-value	0.2679			
Stouffer's		Power	0.000		Power-50%	---	P-value	0.3626		Power	0.000		Power-50%	---	P-value	0.3626			

Tectura scutum - abundance (#/m ²)										Tectura scutum - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1642C/833	1	6	0.000	0.000	4	15.000	15.000	-	0.3910	6	0.000	0.000	4	3.408	3.408	-	0.3910		
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		5.000	5.000	-			0.000	0.000		1.136	1.136	-			
Fisher's		Power	---		Power-50%	---	P-value	0.4191		Power	---		Power-50%	---	P-value	0.4191			
Stouffer's		Power	---		Power-50%	---	P-value	0.3405		Power	---		Power-50%	---	P-value	0.3405			
19C/19	2	6	11.667	7.923	6	3.333	2.108	+	0.3213	6	1.143	0.877	6	0.827	0.608	+	0.7325		
1642C/833	2	4	0.000	0.000	4	10.000	4.082	-	0.3310	4	0.000	0.000	4	1.415	0.873	-	0.2190		
4537C/979	2	5	6.000	6.000	6	25.000	8.466	-	1.0000	5	0.234	0.234	6	2.290	0.787	-	1.0000		
Habitat Means			5.889	4.641		12.778	4.885	-			0.459	0.370		1.511	0.756	-			
Fisher's		Power	0.012		Power-50%	0.182	P-value	0.5017		Power	0.041		Power-50%	0.096	P-value	0.3473			
Stouffer's		Power	0.002		Power-50%	0.221	P-value	0.4179		Power	0.006		Power-50%	0.149	P-value	0.3084			
19C/19	3	4	2.500	2.500	5	4.000	2.449	-	0.7264	4	0.268	0.268	5	1.360	1.272	-	0.3954		
1642C/833	3	4	2.500	2.500	3	33.333	33.333	-	0.4258	4	0.195	0.195	3	1.930	1.930	-	0.2402		
4537C/979	3	3	3.333	3.333	5	4.000	4.000	-	1.0000	3	0.593	0.593	5	0.492	0.492	+	1.0000		
Habitat Means			2.778	2.778		13.778	13.261	-			0.352	0.352		1.261	1.231	-			
Fisher's		Power	0.382		Power-50%	---	P-value	0.3690		Power	0.051		Power-50%	---	P-value	0.1812			
Stouffer's		Power	0.369		Power-50%	---	P-value	0.3182		Power	0.080		Power-50%	---	P-value	0.2163			

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

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

Table D-76, Page 4. December 21, 1994

Table D-76. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, August 1990. (Continued.)

Balanomorpha - abundance (#/m ²)										Balanomorpha - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	356.667	312.118	6	25.000	18.212	+	0.4262	6	9.590	8.637	6	0.560	0.506	-	0.4478
1642C/833	1	6	276.667	212.394	4	5315.000	3377.431	-	0.0130	6	13.330	12.809	4	94.375	58.708	-	0.0310
4537C/979	1	6	175.000	175.000	6	671.667	657.705	-	0.4053	6	9.863	9.863	6	69.540	66.350	-	0.2339
Habitat Means			269.445	233.171		2003.889	1351.116	-			10.928	10.436		54.825	41.855	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0326		Power	---		Power-50%	---	P-value	0.0410	
Stouffer's		Power	---		Power-50%	0.186	P-value	0.0464		Power	---		Power-50%	---	P-value	0.0333	
19C/19	2	4	1010.000	712.461	6	175.000	143.126	+	0.8013	6	45.110	32.132	6	0.743	0.450	+	0.4907
1642C/833	2	4	1405.000	691.393	4	44032.500	32020.287	-	0.1197	4	105.890	37.917	4	2951.880	1597.592	-	0.3500
4537C/979	2	5	1928.000	984.029	6	443.333	293.867	+	0.1075	5	258.746	131.769	6	342.053	338.113	-	0.0493
Habitat Means			1447.667	795.961		14887.611	10819.093	+			136.582	67.273		1098.225	645.385	-	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.2532 y		Power	---		Power-50%	---	P-value	0.0753	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.2519		Power	---		Power-50%	---	P-value	0.0277	
19C/19	3	4	410.000	234.982	5	1916.000	1858.609	-	0.7743	4	11.490	7.538	5	402.806	402.686	-	0.5206
1642C/833	3	4	695.000	381.237	3	100.000	60.828	+	0.5289	4	62.470	54.177	3	338.657	338.512	-	0.7556
4537C/979	3	3	513.333	261.874	5	12.000	9.695	+	0.1193	3	24.393	22.220	5	0.050	0.034	+	0.1896
Habitat Means			536.111	292.698		676.000	643.044	+			32.784	27.978		247.171	247.077	-	
Fisher's		Power	0.015		Power-50%	0.003	P-value	0.1585 y		Power	0.000		Power-50%	0.000	P-value	0.5648	
Stouffer's		Power	---		Power-50%	0.018	P-value	0.0627		Power	0.011		Power-50%	0.006	P-value	0.7832	

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

Table D-76, Page 5, December 21, 1994

Site Pair	MVD	Chthamalus dalli - abundance (#/m^2)								Chthamalus dalli - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	191.667	163.512	6	16.667	16.667	+	0.4040	6	1.968	1.520	6	0.113	0.113	+	0.3840
1642C/833	1	6	53.333	53.333	4	2122.500	1034.846	-	0.0009	6	0.535	0.535	4	11.020	5.284	-	0.0023
4537C/979	1	6	15.000	15.000	6	535.000	535.000	-	0.6827	6	0.093	0.093	6	9.573	9.573	-	0.6982
Habitat Means			86.667	77.282		891.389	528.838	-			0.865	0.716		6.902	4.990	-	
Fisher's	Power		---		Power-50%	---		P-value	0.0062	Power	---		Power-50%	---		P-value	0.0134
Stouffer's	Power		---		Power-50%	0.244		P-value	0.0431	Power	---		Power-50%	---		P-value	0.0595
19C/19	2	6	91.667	60.134	6	156.667	144.814	-	0.8830	6	0.592	0.369	6	0.347	0.331	-	0.6295
1642C/833	2	4	27.500	16.008	4	40422.500	30021.135	-	0.0009	4	0.140	0.081	4	294.555	202.304	-	0.0046
4537C/979	2	5	58.000	33.675	6	138.333	108.886	-	0.7678	5	0.568	0.404	6	0.903	0.724	-	0.5654
Habitat Means			59.056	36.606		13572.500	10091.612	-			0.433	0.285		98.602	67.786	-	
Fisher's	Power		---		Power-50%	---		P-value	0.0042	Power	---		Power-50%	---		P-value	0.0171
Stouffer's	Power		---		Power-50%	0.003		P-value	0.0303	Power	---		Power-50%	---		P-value	0.0432
19C/19	3	4	62.500	52.974	5	536.000	486.432	-	0.2864	4	0.035	0.022	5	6.640	6.553	-	0.2699
1642C/833	3	4	0.000	0.000	3	13.333	13.333	-	0.5025	4	0.000	0.000	3	0.077	0.077	-	0.4470
4537C/979	3	3	376.667	250.089	5	10.000	7.746	+	0.1102	3	2.610	1.337	5	0.032	0.020	-	0.1099
Habitat Means			146.389	101.021		186.444	169.170	-			0.882	0.453		2.250	2.217	-	
Fisher's	Power		0.038		Power-50%	0.022		P-value	0.3433	Power	0.032		Power-50%	0.133		P-value	0.3103
Stouffer's	Power		0.069		Power-50%	0.010		P-value	0.7702	Power	0.088		Power-50%	0.071		P-value	0.7542

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

Table D-76, Page 6, December 21, 1994

Table D-76. Invertebrate Abundance and Biomass. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	43.333	39.469	6	5.000	3.416	+	0.7035	6	4.185	4.051	6	0.415	0.397	+	0.7776		
1642C/833	1	6	113.333	113.333	4	1272.500	989.043	-	0.0040	6	11.475	11.475	4	72.240	45.237	-	0.0097		
4537C/979	1	6	58.333	58.333	6	108.333	96.555	-	0.3722	6	6.465	6.465	6	53.800	50.622	-	0.2136		
Habitat Means			71.666	70.378		461.944	363.005	-			7.375	7.330		42.152	32.085	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0106	Power	---		Power-50%	---		P-value	0.0131		
Stouffer's	Power		---		Power-50%	0.199		P-value	0.0213	Power	---		Power-50%	---		P-value	0.0136		
19C/19	2	6	283.333	194.331	6	1.667	1.667	+	0.0564	6	23.028	15.880	6	0.112	0.112	+	0.0694		
1642C/833	2	4	437.500	264.019	4	842.500	503.345	-	0.8965	4	57.088	29.057	4	25.970	19.604	+	0.4109		
4537C/979	2	5	458.000	179.789	6	71.667	52.499	+	0.1433	5	79.390	33.034	6	2.117	1.893	+	0.0587		
Habitat Means			392.944	212.713		305.278	185.837	-			53.169	25.990		9.400	7.203	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0345	Power	---		Power-50%	---		P-value	0.0095		
Stouffer's	Power		---		Power-50%	0.006		P-value	0.0482	Power	---		Power-50%	---		P-value	0.0071		
19C/19	3	4	70.000	45.277	5	1204.000	1204.000	-	0.7148	4	1.155	0.870	5	380.250	380.250	-	0.7928		
1642C/833	3	4	322.500	312.580	3	0.000	0.000	+	0.2342	4	56.275	55.826	3	0.000	0.000	+	0.2067		
4537C/979	3	3	136.667	131.698	5	2.000	2.000	+	0.2739	3	21.784	21.783	5	0.018	0.018	+	0.4219		
Habitat Means			176.389	163.185		402.000	402.000	+			26.405	26.160		126.756	126.756	+			
Fisher's	Power		0.007		Power-50%	0.053		P-value	0.1653 y	Power	0.002		Power-50%	0.008		P-value	0.1935 y		
Stouffer's	Power		---		Power-50%	0.066		P-value	0.0820	Power	0.010		Power-50%	0.018		P-value	0.1132		

A At least one site pair y-value < 0.000 in opposite direction of overall tests.

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

z Only one site pair.

Table D-76, Page 7, December 21, 1994

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	98.333	94.390	6	3.333	3.333	+	0.1618	6	3.348	3.053	6	0.032	0.032	+	0.4485		
1642C/833	1	6	5.000	5.000	4	0.000	0.000	+	0.9466	6	0.223	0.223	4	0.000	0.000	-	0.9634		
4537C/979	1	6	51.667	51.667	6	25.000	25.000	+	0.6898	6	2.502	2.502	6	6.042	6.042	-	0.4189		
Habitat Means			51.667	50.352		9.444	9.444	+			2.024	1.926		2.025	2.025	+			
Fisher's	Power		0.224		Power-50%	0.071		P-value	0.1940	Power	0.295		Power-50%	0.136		P-value	0.5540 y		
Stouffer's	Power		0.355		Power-50%	0.122		P-value	0.2324	Power	0.129		Power-50%	0.182		P-value	0.6764		
19C/19	2	6	525.000	424.482	6	5.000	5.000	+	0.1361	6	17.265	12.284	6	0.257	0.257	+	0.1832		
1642C/833	2	4	647.500	589.030	4	67.500	64.210	+	0.6125	4	45.778	40.834	4	0.997	0.958	+	0.5869		
4537C/979	2	5	1034.000	612.312	6	16.667	14.757	+	0.0091	5	159.624	95.307	6	0.655	0.635	+	0.0026		
Habitat Means			735.500	541.941		29.722	27.989	+			74.222	49.475		0.636	0.617	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0050	Power	---		Power-50%	---		P-value	0.0022		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0024	Power	---		Power-50%	---		P-value	0.0009		
19C/19	3	4	230.000	126.227	5	40.000	40.000	-	0.0396	4	10.110	6.638	5	0.754	0.754	-	0.0206		
1642C/833	3	4	30.000	23.805	3	0.000	0.000	+	0.1948	4	0.980	0.569	3	0.000	0.000	+	0.1817		
4537C/979	3	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			86.667	50.011		13.333	13.333	+			3.697	2.402		0.251	0.251	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0309	Power	---		Power-50%	---		P-value	0.0178		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.1233	Power	0.000		Power-50%	0.000		P-value	0.1067		

y Direction of difference between habitat means is opposite direction of overall trends.
 z Only one site pair.

Table D-76. Page 7. December 21, 1994

Table D-76. Page 8. December 21, 1994

Table D-76. Invertebrate Abundance and Biomass. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Lacuna spp. - abundance (#/m^2)										Lacuna spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.022	0.022	-	0.3632		
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		1.111	1.111	-			0.000	0.000		0.007	0.007	-			
Fisher's	Power	---			Power-50%	---		P-value	0.4028	Power	---			Power-50%	---		P-value	0.4028	
Stouffer's	Power	---			Power-50%	---		P-value	0.4063	Power	---			Power-50%	---		P-value	0.4063	
19C/19	2	6	13.333	13.333	6	760.000	754.007	-	0.3259	6	0.015	0.015	6	1.658	1.648	-	0.2857		
1642C/833	2	4	0.000	0.000	4	52.500	49.223	-	0.2239	4	0.000	0.000	4	0.065	0.065	-	0.3529		
4537C/979	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			4.444	4.444		270.833	267.743	-			0.005	0.005		0.574	0.571	-			
Fisher's	Power	0.001			Power-50%	---		P-value	0.1526	Power	0.001			Power-50%	---		P-value	0.1883	
Stouffer's	Power	0.003			Power-50%	---		P-value	0.2006	Power	0.000			Power-50%	---		P-value	0.2346	
19C/19	3	4	0.000	0.000	5	1922.000	1180.425	-	0.1778	4	0.000	0.000	5	6.748	4.285	-	0.1779		
1642C/833	3	4	90.000	57.446	3	1650.000	864.079	-	0.3912	4	0.110	0.085	3	3.960	2.266	-	0.3378		
4537C/979	3	3	16.667	6.667	5	614.000	420.245	-	0.4851	3	0.040	0.010	5	1.428	1.145	-	0.5355		
Habitat Means			35.556	21.371		1395.333	821.583	-			0.050	0.032		4.045	2.532	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0903	Power	---			Power-50%	---		P-value	0.0874	
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0889	Power	---			Power-50%	---		P-value	0.0918	

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

Table D-76, Page 9, December 21, 1994

Littorina spp. - abundance (#/m^2)										Littorina spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	195.000	135.222	6	60.000	43.128	+	0.4451	6	4.977	3.179	6	0.358	0.264	-	0.2207		
1642C/833	1	6	768.333	300.659	4	1830.000	704.000	-	0.3771	6	30.448	12.675	4	10.392	4.762	-	0.8390		
4537C/979	1	6	1545.000	644.012	6	803.333	359.691	+	0.8012	6	83.765	39.138	6	35.330	15.313	-	0.6826		
Habitat Means			836.111	359.964		897.778	368.940	+			39.730	18.331		15.360	6.780	-			
Fisher's	Power	0.002			Power-50%	0.007		P-value	0.5118 y	Power	0.002			Power-50%	0.002		P-value	0.2172	
Stouffer's	Power	0.004			Power-50%	0.000		P-value	0.5054	Power	0.000			Power-50%	0.000		P-value	0.2239	
19C/19	2	6	2941.667	2689.123	6	448.333	246.014	+	0.2532	6	39.723	28.190	6	14.762	12.924	+	0.4523		
1642C/833	2	4	1212.500	367.001	4	987.500	461.670	-	0.9320	4	37.055	17.673	4	2.875	1.835	+	0.1841		
4537C/979	2	5	8290.000	2421.425	6	141.667	139.676	-	0.0012	5	173.510	44.034	6	4.225	4.225	+	0.0001		
Habitat Means			4148.056	1825.850		525.833	282.453	-			83.429	29.966		7.287	6.328	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0023	Power	---			Power-50%	---		P-value	0.0001	
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0011	Power	---			Power-50%	---		P-value	0.0000	
19C/19	3	4	1045.000	684.647	5	558.000	388.502	+	0.5623	4	6.235	3.972	5	7.324	5.359	-	0.6401		
1642C/833	3	4	305.000	65.891	3	26.667	21.858	+	0.1328	4	1.655	1.041	3	0.050	0.036	-	0.1974		
4537C/979	3	3	1323.333	1318.337	5	6.000	4.000	+	0.2493	3	63.180	63.145	5	0.194	0.192	-	0.2278		
Habitat Means			891.111	689.625		196.889	138.120	+			23.690	22.719		2.523	1.862	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0592	Power	0.003			Power-50%	0.000		P-value	0.1357	
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0331	Power	---			Power-50%	---		P-value	0.0659	

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

Table D-76, Page 10, December 21, 1994

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Table D-76. Page 10. December 21, 1994

Table D-76. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, August 1990. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	88.333	53.318	6	45.000	33.640	-	0.5669	6	2.818	1.756	6	0.187	0.127	+	0.3820		
1642C/833	1	6	605.000	308.693	4	395.000	260.272	-	0.7026	6	28.502	12.900	4	3.953	3.567	+	0.2582		
4537C/979	1	6	1541.667	645.102	6	295.000	130.352	-	0.0812	6	83.620	39.177	6	16.543	10.048	-	0.0651		
Habitat Means			745.000	335.704		245.000	141.421	+			38.313	17.944		6.894	4.581	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0877	Power	---		Power-50%	---		P-value	0.0269		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0364	Power	---		Power-50%	---		P-value	0.0103		
19C/19	2	6	2650.000	2467.316	6	333.333	219.327	-	0.3744	6	36.608	27.685	6	13.027	12.697	+	0.1586		
1642C/833	2	4	587.500	193.062	4	47.500	20.156	-	0.0999	4	31.050	15.589	4	0.110	0.072	+	0.0190		
4537C/979	2	5	6012.000	1769.995	6	116.667	114.678	-	0.0002	5	150.646	41.498	6	3.682	3.682	-	0.0001		
Habitat Means			3083.167	1476.791		165.833	118.054	+			72.768	28.257		5.606	5.484	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0001	Power	---		Power-50%	---		P-value	0.0000		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0000	Power	---		Power-50%	---		P-value	0.0000		
19C/19	3	4	932.500	684.852	5	208.000	140.691	+	0.4127	4	3.943	2.239	5	2.254	1.733	+	0.4939		
1642C/833	3	4	122.500	43.084	3	13.333	13.333	+	0.1403	4	0.463	0.201	3	0.033	0.033	+	0.1540		
4537C/979	3	3	1046.667	1041.671	5	2.000	2.000	-	0.1413	3	59.473	59.438	5	0.002	0.002	-	0.0715		
Habitat Means			700.556	589.869		74.444	52.008	+			21.293	20.626		0.763	0.589	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0323	Power	---		Power-50%	---		P-value	0.0237		
Stouffer's	Power		---		Power-50%	0.002		P-value	0.0156	Power	---		Power-50%	---		P-value	0.0088		

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	106.667	83.413	6	15.000	9.574	+	0.8301	6	2.158	1.731	6	0.172	0.139	+	0.6757		
1642C/833	1	6	163.333	116.466	4	1435.000	542.302	-	0.0420	6	1.947	1.120	4	6.440	2.772	-	0.4058		
4537C/979	1	6	3.333	2.108	6	508.333	362.072	-	0.0022	6	0.145	0.101	6	18.787	13.834	-	0.0017		
Habitat Means			91.111	67.329		652.778	304.649	-			1.417	0.984		8.466	5.582	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0010	Power	---		Power-50%	---		P-value	0.0059		
Stouffer's	Power		---		Power-50%	0.351		P-value	0.0002	Power	---		Power-50%	---		P-value	0.0018		
19C/19	2	6	291.667	226.722	6	115.000	41.533	+	0.4626	6	3.115	1.863	6	1.735	0.915	-	0.7690		
1642C/833	2	4	625.000	248.244	4	940.000	444.128	-	0.9815	4	6.005	2.808	4	2.765	1.766	+	0.2684		
4537C/979	2	5	2278.000	809.045	6	25.000	25.000	+	0.0001	5	22.864	7.174	6	0.543	0.543	+	0.0005		
Habitat Means			1064.889	428.004		360.000	170.220	+			10.661	3.948		1.681	1.075	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0005	Power	---		Power-50%	---		P-value	0.0010		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0003	Power	---		Power-50%	---		P-value	0.0002		
19C/19	3	4	112.500	112.500	5	350.000	345.022	-	0.3995	4	2.293	2.293	5	5.070	5.065	-	0.5054		
1642C/833	3	4	182.500	55.883	3	13.333	8.819	+	0.5959	4	1.192	0.859	3	0.017	0.009	+	0.8034		
4537C/979	3	3	276.667	276.667	5	4.000	4.000	+	0.3749	3	3.707	3.707	5	0.192	0.192	+	0.4399		
Habitat Means			190.556	148.350		122.444	119.280	+			2.397	2.286		1.760	1.755	-			
Fisher's	Power		0.112		Power-50%	0.256		P-value	0.3995	Power	0.043		Power-50%	0.089		P-value	0.4893		
Stouffer's	Power		0.082		Power-50%	0.264		P-value	0.2184	Power	0.037		Power-50%	0.113		P-value	0.2768		

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

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Table D-76. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, August 1990. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	48.333	44.453	6	208.333	154.022	-	0.4211	6	12.470	12.414	6	0.670	0.507	+	0.8962		
1642C/833	1	6	81.667	52.435	4	3032.500	2989.324	-	0.3378	6	9.895	8.172	4	35.520	35.420	-	0.7153		
4537C/979	1	6	81.667	69.829	6	3.333	2.108	+	0.2971	6	8.505	8.056	6	1.072	1.072	+	0.2611		
Habitat Means			70.556	55.572		1081.389	1048.485	-			10.290	9.547		12.421	12.333	-			
Fisher's			Power	0.078		Power-50%	0.226	P-value	0.3169	Power	0.027			Power-50%	0.063	P-value	0.3632	y	
Stouffer's			Power	0.119		Power-50%	0.349	P-value	0.5792	Power	0.055			Power-50%	0.133	P-value	0.2115		
19C/19	2	6	3501.667	2883.969	6	1110.000	441.173	-	0.3107	6	122.173	65.185	6	7.733	4.790	+	0.8051		
1642C/833	2	4	445.000	319.283	4	3270.000	1601.146	-	0.3278	4	168.475	148.020	4	18.320	10.895	+	0.8954		
4537C/979	2	5	6418.000	2296.335	6	788.333	509.826	-	0.0286	5	1242.912	498.185	6	203.258	123.171	+	0.0436		
Habitat Means			3454.889	1833.196		1722.778	850.715	+			511.187	237.130		76.437	46.285	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0503	Power	---			Power-50%	---	P-value	0.0860		
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0516	Power	---			Power-50%	---	P-value	0.0345		
19C/19	3	4	962.500	929.466	5	2232.000	1133.276	-	0.4602	4	10.608	9.172	5	103.762	99.830	-	0.1270		
1642C/833	3	4	3627.500	2524.402	3	490.000	245.017	+	0.1187	4	51.450	27.463	3	1.527	0.777	+	0.3378		
4537C/979	3	3	360.000	219.393	5	44.000	24.000	-	0.8649	3	132.347	132.102	5	0.070	0.036	-	0.1066		
Habitat Means			1650.000	1224.420		922.000	467.431	-			64.802	56.246		35.120	33.548	+			
Fisher's			Power	0.000		Power-50%	0.002	P-value	0.2494	Power	0.000			Power-50%	0.000	P-value	0.1448		
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.2427	Power	---			Power-50%	---	P-value	0.0787		

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	1	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.003	0.003	6	0.000	0.000	-	0.3632		
Habitat Means			1.111	1.111		0.000	0.000	+			0.001	0.001		0.000	0.000	+			
Fisher's			Power	---		Power-50%	---	P-value	0.4028	Power	---			Power-50%	---	P-value	0.4028		
Stouffer's			Power	---		Power-50%	---	P-value	0.2231	Power	---			Power-50%	---	P-value	0.2231		
19C/19	2	6	20.000	20.000	6	36.667	34.705	-	0.6378	6	0.027	0.027	6	0.025	0.025	+	0.9507		
1642C/833	2	4	2.500	2.500	4	12.500	9.465	-	0.4699	4	0.000	0.000	4	0.005	0.005	-	0.5011		
4537C/979	2	5	322.000	95.677	6	6.667	6.667	+	0.0003	5	0.248	0.068	6	0.003	0.003	-	0.0001		
Habitat Means			114.833	39.392		18.611	16.946	-			0.092	0.032		0.011	0.011	-			
Fisher's			Power	0.066		Power-50%	0.039	P-value	0.5206xy	Power	---			Power-50%	---	P-value	0.0013		
Stouffer's			Power	0.065		Power-50%	0.000	P-value	0.9948	Power	---			Power-50%	---	P-value	0.0016		
19C/19	3	4	0.000	0.000	5	402.000	338.562	-	0.1835	4	0.000	0.000	5	0.256	0.214	-	0.1840		
1642C/833	3	4	1630.000	1317.915	3	133.333	68.880	-	0.9127	4	1.028	0.890	3	0.103	0.052	+	0.9455		
4537C/979	3	3	13.333	13.333	5	12.000	9.695	-	0.9848	3	0.017	0.017	5	0.008	0.008	+	0.7330		
Habitat Means			547.778	443.749		182.444	139.046	+			0.348	0.302		0.122	0.091	-			
Fisher's			Power	0.054		Power-50%	0.080	P-value	0.7861	Power	0.049			Power-50%	0.066	P-value	0.7173		
Stouffer's			Power	0.008		Power-50%	0.196	P-value	0.6097	Power	0.132			Power-50%	0.178	P-value	0.5113		

x At least one site pair p-value < 0.050 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

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Table D-76. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, August 1990. (Continued.)

Site Pair	MVD	Pagurus spp. - abundance (#/m ²)								Pagurus spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	1.667	1.667	6	23.333	21.396	-	0.3988	6	0.008	0.008	6	1.803	1.803	-	0.4950
1642C/833	1	6	8.333	8.333	4	2.500	2.500	+	0.9544	6	0.600	0.600	4	0.060	0.060	+	0.9968
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			3.333	3.333		8.611	7.965	-			0.203	0.203		0.621	0.621	-	
Fisher's	Power		0.002		Power-50%	---	P-value	0.4335		Power	0.001		Power-50%	---	P-value	0.4744	
Stouffer's	Power		0.002		Power-50%	---	P-value	0.4236		Power	0.000		Power-50%	---	P-value	0.4301	
19C/19	2	6	83.333	81.350	6	45.000	24.461	-	0.5686	6	0.185	0.123	6	1.410	0.888	-	0.7616
1642C/833	2	4	77.500	74.204	4	2.500	2.500	+	0.3649	4	4.550	4.434	4	0.300	0.300	-	0.3933
4537C/979	2	5	64.000	30.919	6	48.333	30.813	+	1.0000	5	2.254	1.463	6	6.692	5.455	-	0.0436
Habitat Means			74.944	62.158		31.944	19.258	+			2.330	2.007		2.801	2.214	-	
Fisher's	Power		0.034		Power-50%	0.072	P-value	0.2936		Power	0.008		Power-50%	0.039	P-value	0.1238	
Stouffer's	Power		0.053		Power-50%	0.095	P-value	0.2800		Power	---		Power-50%	---	P-value	0.0867	
19C/19	3	4	47.500	41.105	5	106.000	44.000	-	0.8664	4	0.637	0.624	5	2.102	1.451	-	0.5257
1642C/833	3	4	60.000	37.193	3	40.000	40.000	+	0.9597	4	1.368	1.256	3	0.230	0.230	-	0.3514
4537C/979	3	3	133.333	44.096	5	524.000	479.683	-	0.3090	3	4.280	1.548	5	37.680	35.916	-	0.4043
Habitat Means			80.278	40.798		223.333	187.894	-			2.095	1.143		13.337	12.532	-	
Fisher's	Power		0.171		Power-50%	0.010	P-value	0.3480		Power	0.086		Power-50%	0.005	P-value	0.3951	
Stouffer's	Power		0.393		Power-50%	0.000	P-value	0.1916		Power	0.237		Power-50%	0.000	P-value	0.3382	

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

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Site Pair	MVD	Nucella spp. - abundance (#/m^2)								Nucella spp. - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	0.000	0.000	6	13.333	11.450	-	0.1950	6	0.000	0.000	6	15.147	13.317	-	0.1776
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		4.444	3.817	-			0.000	0.000		5.049	4.439	-	
Fisher's	Power		0.014		Power-50%	---	P-value	0.2830		Power	0.009		Power-50%	---	P-value	0.2677	
Stouffer's	Power		0.002		Power-50%	---	P-value	0.3677		Power	0.000		Power-50%	---	P-value	0.3625	
19C/19	2	6	5.000	3.416	6	31.667	29.712	-	0.7401	6	4.018	3.157	6	27.872	26.144	-	0.8821
1642C/833	2	4	2.500	2.500	4	0.000	0.000	+	0.3910	4	2.267	2.267	4	0.000	0.000	+	0.3910
4537C/979	2	5	2.000	2.000	6	0.000	0.000	+	0.3739	5	0.038	0.038	6	0.000	0.000	+	0.3739
Habitat Means			3.167	2.639		10.556	9.904	+			2.108	1.821		9.291	8.715	+	
Fisher's	Power		0.229		Power-50%	0.740	P-value	0.2736 y		Power	0.182		Power-50%	0.388	P-value	0.2545 y	
Stouffer's	Power		0.217		Power-50%	0.731	P-value	0.1424		Power	0.429		Power-50%	0.413	P-value	0.1319	
19C/19	3	4	20.000	16.833	5	2.000	2.000	+	0.2051	4	9.813	9.300	5	2.380	2.380	+	0.5122
1642C/833	3	4	2.500	2.500	3	0.000	0.000	+	0.5665	4	11.938	11.938	3	0.000	0.000	+	0.3580
4537C/979	3	3	6.667	6.667	5	2.000	2.000	+	0.5923	3	5.283	5.283	5	9.782	9.782	-	0.7144
Habitat Means			9.722	8.667		1.333	1.333	+			9.011	8.840		4.054	4.054	-	
Fisher's	Power		0.164		Power-50%	0.211	P-value	0.1468		Power	0.019		Power-50%	0.095	P-value	0.3163	
Stouffer's	Power		0.218		Power-50%	0.269	P-value	0.1460		Power	0.034		Power-50%	0.171	P-value	0.3801	

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

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Table D-76. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, August 1990. (Continued.)

Nucella lima - abundance (#/m ²)										Nucella lima - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	6.667	4.944	-	0.1830	6	0.000	0.000	6	6.550	4.887	-	0.1756		
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		2.222	1.648	-			0.000	0.000		2.183	1.629	-			
Fisher's	Power		0.082		Power-50%	---	P-value	0.2725		Power	0.077		Power-50%	---	P-value	0.2658			
Stouffer's	Power		0.019		Power-50%	---	P-value	0.3642		Power	0.000		Power-50%	---	P-value	0.3619			
19C/19	2	6	5.000	3.426	6	0.000	0.000	+	0.1784	6	4.018	3.157	6	0.000	0.000	+	0.1762		
1642C/833	2	4	2.500	2.500	4	0.000	0.000	+	0.3910	4	2.267	2.267	4	0.000	0.000	+	0.3910		
4537C/979	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			2.500	1.972		0.000	0.000	+			2.095	1.808		0.000	0.000	+			
Fisher's	Power		0.854		Power-50%	0.347	P-value	0.1481		Power	0.527		Power-50%	0.148	P-value	0.1469			
Stouffer's	Power		0.921		Power-50%	0.070	P-value	0.2230		Power	0.022		Power-50%	0.009	P-value	0.2224			
19C/19	3	4	2.500	2.500	5	2.000	2.000	+	0.8786	4	0.390	0.390	5	2.380	2.380	-	0.9889		
1642C/833	3	4	0.000	0.000	3	0.000	0.000	o	1.0000	4	0.000	0.000	3	0.000	0.000	o	1.0000		
4537C/979	3	3	6.667	6.667	5	0.000	0.000	+	0.4226	3	5.283	5.283	5	0.000	0.000	-	0.4226		
Habitat Means			3.056	3.056		0.667	0.667	-			1.891	1.891		0.793	0.793	+			
Fisher's	Power		---		Power-50%	---	P-value	0.4076		Power	---		Power-50%	---	P-value	0.4391			
Stouffer's	Power		---		Power-50%	---	P-value	0.2384		Power	---		Power-50%	---	P-value	0.2520			

* At least one site pair p-value < 0.05 in opposite direction of overall test.

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

‡ Only one site pair.

Nucella lamellosa - abundance (#/m ²)										Nucella lamellosa - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	6.667	6.667	-	0.3632	6	0.000	0.000	6	8.597	8.597	-	0.3632		
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		2.222	2.222	-			0.000	0.000		2.866	2.866	-			
Fisher's	Power		---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028			
Stouffer's	Power		---		Power-50%	---	P-value	0.4063		Power	---		Power-50%	---	P-value	0.4063			
19C/19	2	6	0.000	0.000	6	31.667	29.712	-	0.2091	6	0.000	0.000	6	27.872	26.144	-	0.1797		
1642C/833	2	4	0.000	0.000	4	0.000	0.000	o	1.0000	4	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		10.556	9.904	-			0.000	0.000		9.291	8.715	-			
Fisher's	Power		0.004		Power-50%	---	P-value	0.2950		Power	0.004		Power-50%	---	P-value	0.2696			
Stouffer's	Power		0.000		Power-50%	---	P-value	0.3716		Power	0.000		Power-50%	---	P-value	0.3632			
19C/19	3	4	17.500	17.500	5	0.000	0.000	+	0.3910	4	9.423	9.423	5	0.000	0.000	+	0.3956		
1642C/833	3	4	2.500	2.500	3	0.000	0.000	+	0.3910	4	11.938	11.938	3	0.000	0.000	+	0.3457		
4537C/979	3	3	0.000	0.000	5	2.000	2.000	-	0.3739	3	0.000	0.000	5	9.782	9.782	-	0.4226		
Habitat Means			6.667	6.667		0.667	0.667	+			7.120	7.120		3.261	3.261	-			
Fisher's	Power		---		Power-50%	---	P-value	0.3262		Power	---		Power-50%	---	P-value	0.3004			
Stouffer's	Power		---		Power-50%	---	P-value	0.5439		Power	---		Power-50%	---	P-value	0.4993			

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

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y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

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Table D-76. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, August 1990. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	28.333	28.333	6	278.333	200.040	-	0.1630	6	0.005	0.005	6	0.353	0.225	-	0.1483
1642C/833	1	6	0.000	0.000	4	77.500	37.500	-	0.0608	6	0.000	0.000	4	0.222	0.158	-	0.0680
4537C/979	1	6	393.333	375.621	6	0.000	0.000	+	0.1926	6	1.593	1.585	6	0.000	0.000	+	0.2193
Habitat Means			140.555	134.651		118.611	79.180	-			0.533	0.530		0.192	0.128	-	
Fisher's	Power	---			Power-50%	---		P-value	0.0576 y	Power	---		Power-50%	---		P-value	0.0577 y
Stouffer's	Power	0.000			Power-50%	0.050		P-value	0.4321	Power	0.000		Power-50%	0.011		P-value	0.4119 y
19C/19	2	6	1441.667	1429.700	6	870.000	676.294	+	0.5769	6	2.080	2.066	6	1.235	0.883	+	0.5641
1642C/833	2	4	5.000	5.000	4	157.500	95.427	-	0.9030	4	0.008	0.008	4	0.603	0.497	-	0.7396
4537C/979	2	5	638.000	259.334	6	108.333	78.673	+	0.6218	5	0.468	0.252	6	0.315	0.188	+	0.9204
Habitat Means			694.889	564.678		378.611	283.465	+			0.852	0.775		0.718	0.523	+	
Fisher's	Power	0.044			Power-50%	0.012		P-value	0.4205	Power	0.036		Power-50%	0.011		P-value	0.5429
Stouffer's	Power	0.006			Power-50%	0.000		P-value	0.3085	Power	0.000		Power-50%	0.000		P-value	0.4702
19C/19	3	4	417.500	368.202	5	1592.000	888.113	-	0.1995	4	0.545	0.448	5	1.918	0.849	-	0.1939
1642C/833	3	4	252.500	128.736	3	826.667	434.524	-	0.5744	4	0.640	0.457	3	1.483	0.693	-	0.4759
4537C/979	3	3	1136.667	755.035	5	1038.000	668.688	+	0.9193	3	2.040	1.155	5	1.304	0.748	+	0.5148
Habitat Means			602.222	417.324		1152.222	663.775	-			1.075	0.687		1.568	0.763	-	
Fisher's	Power	0.000			Power-50%	0.002		P-value	0.2145	Power	0.000		Power-50%	0.001		P-value	0.2285
Stouffer's	Power	0.000			Power-50%	0.000		P-value	0.3019	Power	0.000		Power-50%	0.000		P-value	0.4463

x no mean one site pair; y value < 0.100 in opposite direction of overall mean

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

z Only one site pair.

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	1.667	1.667	6	1.667	1.667	0	1.0000	6	0.000	0.000	6	0.125	0.125	-	0.7722
1642C/833	1	6	0.000	0.000	4	10.000	5.774	-	0.1817	6	0.000	0.000	4	0.260	0.260	-	0.3601
4537C/979	1	6	3.333	2.108	6	0.000	0.000	+	0.1747	6	0.120	0.077	6	0.000	0.000	+	0.1749
Habitat Means			1.667	1.258		3.889	2.480	+			0.040	0.026		0.129	0.129	-	
Fisher's	Power	0.331			Power-50%	0.690		P-value	0.3745 y	Power	0.011		Power-50%	0.714		P-value	0.3326
Stouffer's	Power	0.070			Power-50%	0.714		P-value	0.3095	Power	0.000		Power-50%	0.621		P-value	0.6825
19C/19	2	6	43.333	41.366	6	23.333	21.396	-	0.9379	6	0.128	0.126	6	0.002	0.002	+	0.5324
1642C/833	2	4	10.000	10.000	4	1472.500	764.323	-	0.0128	4	2.033	2.033	4	1.900	1.301	+	0.1442
4537C/979	2	5	146.000	60.877	6	21.667	17.966	+	0.0748	5	1.356	1.015	6	0.010	0.008	+	0.0203
Habitat Means			66.444	37.414		505.833	267.895	+			1.172	1.058		0.637	0.437	-	
Fisher's	Power	0.024			Power-50%	0.101		P-value	0.2309xy	Power	---		Power-50%	---		P-value	0.0090
Stouffer's	Power	0.036			Power-50%	0.207		P-value	0.3744	Power	---		Power-50%	---		P-value	0.0025
19C/19	3	4	112.500	102.744	5	32.000	14.629	+	0.9963	4	0.375	0.321	5	0.048	0.030	+	0.5895
1642C/833	3	4	37.500	21.747	3	376.667	347.099	-	0.6119	4	0.090	0.054	3	0.807	0.690	-	0.4608
4537C/979	3	3	140.000	63.509	5	60.000	17.889	+	0.4869	3	4.383	3.051	5	0.478	0.386	+	0.1120
Habitat Means			96.667	62.667		156.222	126.539	+			1.616	1.142		0.444	0.369	-	
Fisher's	Power	0.007			Power-50%	0.017		P-value	0.5503 y	Power	0.005		Power-50%	0.010		P-value	0.1892
Stouffer's	Power	0.005			Power-50%	0.026		P-value	0.3667	Power	0.000		Power-50%	0.000		P-value	0.1315

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

Table D-76, Page 19, December 21, 1994

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

Table D-76, Page 20, December 21, 1994

Table D-76. Invertebrate Abundance and Biomass. Prince William Sound. Exposed Rocky. August 1990. (Continued.)

Errant polychaetes - abundance (#/m ²)										Errant polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.003	0.003	-	0.3632		
1642C/833	1	6	0.000	0.000	4	57.500	54.218	-	0.2255	6	0.000	0.000	4	0.267	0.229	-	0.1915		
4537C/979	1	6	30.000	30.000	6	0.000	0.000	+	0.3632	6	0.022	0.022	6	0.000	0.000	+	0.3632		
Habitat Means			10.000	10.000		19.722	18.628	-			0.007	0.007		0.090	0.077	-			
Fisher's			Power	0.031		Power-50%	---	P-value	0.2254	Power	0.113		Power-50%	---	P-value	0.2034			
Stouffer's			Power	0.001		Power-50%	---	P-value	0.4775	Power	0.000		Power-50%	---	P-value	0.4596			
19C/19	2	6	6.667	4.944	6	5.000	5.000	+	0.6485	6	0.001	0.001	6	0.000	0.000	+	0.5490		
1642C/833	2	4	2.500	2.500	4	705.000	345.555	-	0.0071	4	0.020	0.020	4	1.380	0.543	-	0.0695		
4537C/979	2	5	1090.000	382.139	6	150.000	114.746	+	0.0112	5	0.941	0.161	6	0.199	0.179	+	0.0117		
Habitat Means			366.389	129.861		286.667	155.100	+			0.321	0.061		0.526	0.241	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0493x	Power	---		Power-50%	---	P-value	0.0440xy			
Stouffer's			Power	0.000		Power-50%	0.259	P-value	0.1701	Power	---		Power-50%	---	P-value	0.0809			
19C/19	3	4	2.500	2.500	5	106.000	56.089	-	0.1334	4	0.000	0.000	5	0.082	0.045	-	0.9130		
1642C/833	3	4	535.000	404.815	3	463.333	280.852	+	0.9642	4	0.585	0.535	3	0.890	0.811	-	0.7219		
4537C/979	3	3	656.667	497.873	5	560.000	238.474	+	0.5363	3	1.237	1.019	5	1.144	0.642	+	0.9096		
Habitat Means			398.056	301.729		376.444	191.805	+			0.607	0.518		0.705	0.499	-			
Fisher's			Power	0.004		Power-50%	0.016	P-value	0.6456	Power	0.007		Power-50%	0.012	P-value	0.5672			
Stouffer's			Power	0.003		Power-50%	0.024	P-value	0.4412	Power	0.023		Power-50%	0.000	P-value	0.4586			
Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's			Power	---		Power-50%	---	P-value	0.6552	Power	---		Power-50%	---	P-value	0.6552			
Stouffer's			Power	---		Power-50%	---	P-value	0.5000	Power	---		Power-50%	---	P-value	0.5000			
19C/19	2	6	1.667	1.667	6	36.667	31.056	-	0.3312	6	0.000	0.000	6	0.033	0.033	-	0.3585		
1642C/833	2	4	0.000	0.000	4	430.000	423.360	-	0.2330	4	0.000	0.000	4	0.065	0.038	-	0.1818		
4537C/979	2	5	356.000	157.181	6	248.333	166.582	+	0.0686	5	0.315	0.199	6	0.080	0.061	+	0.1791		
Habitat Means			119.222	52.949		238.333	206.999	-			0.105	0.066		0.059	0.044	-			
Fisher's			Power	0.477		Power-50%	0.015	P-value	0.2406x	Power	0.330		Power-50%	0.000	P-value	0.2088 y			
Stouffer's			Power	0.720		Power-50%	0.004	P-value	0.7584	Power	0.566		Power-50%	0.000	P-value	0.5973			
19C/19	3	4	0.000	0.000	5	2.000	2.000	-	0.3739	4	0.000	0.000	5	0.001	0.001	-	0.3739		
1642C/833	3	4	437.500	256.202	3	150.000	104.083	+	0.9702	4	0.710	0.413	3	4.154	4.153	-	0.9458		
4537C/979	3	3	1716.667	899.080	5	192.000	140.478	+	0.1253	3	1.720	0.965	5	1.500	1.470	-	0.5048		
Habitat Means			718.056	385.094		114.667	82.187	-			0.810	0.459		1.885	1.875	-			
Fisher's			Power	0.001		Power-50%	0.003	P-value	0.2853	Power	0.026		Power-50%	0.000	P-value	0.4895			
Stouffer's			Power	0.000		Power-50%	0.001	P-value	0.1421	Power	0.049		Power-50%	0.000	P-value	0.6157			

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

Table D-76, Page 21, December 21, 1994

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

Table D-76, Page 22, December 21, 1994

Table D-76. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, August 1990. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	6.667	6.667	6	81.667	70.352	-	0.4815	6	0.000	0.000	6	0.068	0.068	-	0.3589		
1642C/833	1	6	130.000	128.010	4	0.000	0.000	+	0.3795	6	0.065	0.065	4	0.000	0.000	+	0.3294		
4537C/979	1	6	3203.333	2972.362	6	66.667	66.667	+	0.0608	6	2.745	2.446	6	0.063	0.063	+	0.3341		
Habitat Means			1113.333	1035.680		49.445	45.673				0.937	0.837		0.044	0.044	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0928	Power	0.003		Power-50%	0.020		P-value	0.2799		
Stouffer's	Power	---			Power-50%	0.197		P-value	0.0352	Power	0.006		Power-50%	0.059		P-value	0.1575		
19C/19	2	6	2626.667	2624.667	6	816.667	456.112	-	0.1105	6	0.305	0.305	6	0.372	0.303	-	0.1074		
1642C/833	2	4	0.000	0.000	4	190.000	180.046	-	0.1468	4	0.000	0.000	4	0.015	0.015	-	0.4635		
4537C/979	2	5	15268.000	8090.959	6	268.333	214.933	+	0.0013	5	2.392	1.276	6	0.048	0.033	+	0.0013		
Habitat Means			5964.889	3571.875		425.000	283.697	+			0.899	0.527		0.145	0.117	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0021	Power	0.008		Power-50%	0.002		P-value	0.1867 ^{xy}		
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0079	Power	0.053		Power-50%	0.000		P-value	0.9728		
19C/19	3	4	35.000	35.000	5	1814.000	1557.185	-	0.1767	4	0.003	0.003	5	1.274	1.244	-	0.1867		
1642C/833	3	4	1260.000	1013.221	3	566.667	284.800	-	0.6361	4	0.525	0.452	3	0.063	0.058	+	0.6668		
4537C/979	3	3	1110.000	669.054	5	70.000	38.859	+	0.4600	3	0.537	0.384	5	0.022	0.014	+	0.6160		
Habitat Means			801.667	572.425		816.889	626.948	+			0.355	0.280		0.453	0.439				
Fisher's	Power	0.006			Power-50%	0.023		P-value	0.4917 ^y	Power	0.002		Power-50%	0.006		P-value	0.5765 ^y		
Stouffer's	Power	0.005			Power-50%	0.030		P-value	0.3110	Power	0.000		Power-50%	0.000		P-value	0.3891		

Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	638.333	388.634	6	738.333	365.736	-	0.4474	6	27.050	16.774	6	20.292	14.983	-	0.9155		
1642C/833	1	6	1533.333	771.063	4	10612.500	6417.738	-	0.0925	6	60.870	37.533	4	153.076	94.189	-	0.2018		
4537C/979	1	6	5500.000	3662.392	6	1553.333	623.430	+	0.7923	6	108.852	43.236	6	106.507	61.769	+	0.9706		
Habitat Means			2557.222	1607.363		4301.389	2468.968	-			65.591	32.514		93.292	56.980	+			
Fisher's	Power	0.000			Power-50%	0.003		P-value	0.1184	Power	0.005		Power-50%	0.004		P-value	0.7806 ^y		
Stouffer's	Power	0.000			Power-50%	0.010		P-value	0.2164	Power	0.000		Power-50%	0.000		P-value	0.7101		
19C/19	2	6	11775.000	9705.715	6	5036.667	2583.197	+	0.4401	6	215.579	120.749	6	62.178	27.146	-	0.5871		
1642C/833	2	4	3340.000	794.324	4	54365.000	31546.174	-	0.1735	4	332.008	182.954	4	3145.832	1687.864	-	0.5151		
4537C/979	2	5	37852.000	12960.202	6	2888.333	1674.305	+	0.0037	5	1689.491	628.513	6	594.449	365.472	-	0.0400		
Habitat Means			17655.667	7820.080		20663.333	11934.539	+			745.693	310.739		1267.486	693.494				
Fisher's	Power	---			Power-50%	---		P-value	0.0149 ^y	Power	---		Power-50%	---		P-value	0.0924 ^y		
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0238	Power	---		Power-50%	---		P-value	0.0605		
19C/19	3	4	3120.000	1566.179	5	12162.000	3182.708	-	0.1227	4	40.261	20.149	5	538.634	508.656	-	0.2292		
1642C/833	3	4	11782.500	7758.609	3	10770.000	5928.128	+	0.8752	4	200.404	106.426	3	384.108	349.802	-	0.6917		
4537C/979	3	3	8046.667	2466.133	5	4306.000	1499.128	-	0.5459	3	302.519	233.121	5	77.338	43.314	-	0.6117		
Habitat Means			7649.722	3930.307		9079.333	3536.655				181.061	119.899		333.360	300.591	-			
Fisher's	Power	0.000			Power-50%	0.000		P-value	0.6259 ^y	Power	0.000		Power-50%	0.000		P-value	0.3040		
Stouffer's	Power	0.000			Power-50%	0.000		P-value	0.4293	Power	0.000		Power-50%	0.000		P-value	0.4687		

A. All cases, the same test is used.
 y. Direction of difference between habitat means is different than direction of overall tests.
 z. Only one site pair.

Table D-76, Page 23, December 21, 1994

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drop; N = sample size; C = control mean; O = oiled mean; SE = standard error; D
value; Power = power to detect given difference; Power-50% power to detect a

										Lottidae - biomass (g/m ²)							
										N	C	SE	N	O	SE	D	P
1642C/833	1	6	8.333	8.333	4	37.500	17.500	-	0.3861	6	0.907	0.907	4	13.223	9.393	-	0.0614
4537C/979	1	6	10.000	6.325	6	30.000	13.166	-	0.5051	6	1.615	1.215	6	3.410	1.862	-	0.3004
Habitat Means			23.889	16.925		41.167	20.689	-			2.468	1.464		9.001	5.682	-	
Fisher's		Power	0.006		Power-50%	0.510	P-value	0.2714		Power	---		Power-50%	---	P-value	0.0573	
Stouffer's		Power	0.002		Power-50%	0.654	P-value	0.1597		Power	---		Power-50%	---	P-value	0.0379	
19C/19	2	6	41.667	16.210	5	70.000	37.417	-	0.6754	6	4.598	1.409	5	7.602	3.826	-	0.6431
1642C/833	2	6	38.333	28.451	4	87.500	41.908	-	0.4966	6	3.797	2.870	4	8.175	3.021	-	0.5270
4537C/979	2	6	28.333	11.667	6	131.667	90.274	-	0.1170	6	2.085	0.979	6	11.690	8.731	-	0.1276
Habitat Means			36.111	18.776		96.389	56.533	-			3.493	1.753		9.156	5.193	-	
Fisher's		Power	0.285		Power-50%	0.002	P-value	0.1003		Power	0.262		Power-50%	0.001	P-value	0.1073	
Stouffer's		Power	---		Power-50%	0.005	P-value	0.0402		Power	---		Power-50%	---	P-value	0.0445	
19C/19	3	6	93.333	50.442	5	72.000	28.531	+	0.6817	6	22.230	15.305	5	22.256	11.750	-	0.9983
1642C/833	3	6	43.333	28.363	3	66.667	33.830	-	0.7008	6	6.152	5.067	3	17.927	9.469	-	0.4678
4537C/979	3	5	102.000	38.781	6	103.333	29.740	-	0.9795	5	10.868	5.163	6	13.332	6.116	-	0.8585
Habitat Means			79.555	39.195		80.667	30.700	-			13.083	8.512		17.838	9.112	-	
Fisher's		Power	0.006		Power-50%	0.088	P-value	0.6283		Power	0.006		Power-50%	0.043	P-value	0.4247	
Stouffer's		Power	0.000		Power-50%	0.134	P-value	0.4607		Power	0.000		Power-50%	0.002	P-value	0.3094	

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

Table D-77, Page 1, December 21, 1994

Lottia delta - abundance (#/m^2)										Lottia Delta - biomass (g/m^2)							
Site Date	Year	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	1	6	8.333	5.426	6	5.000	3.416	+	0.8512	6	1.550	1.209	6	0.355	0.257	+	0.8438
Habitat Means			3.333	2.364		7.667	5.660	-			0.591	0.477		1.096	0.878	-	
Fisher's		Power	0.058		Power-50%	0.615	P-value	0.3818		Power	0.018		Power-50%	0.169	P-value	0.4338	
Stouffer's		Power	0.033		Power-50%	0.639	P-value	0.4518		Power	0.004		Power-50%	0.199	P-value	0.4707	
19C/19	2	6	31.667	11.949	5	56.000	39.319	-	0.3641	6	4.153	1.196	5	6.504	3.711	-	0.2767
1642C/833	2	6	15.000	11.475	4	60.000	24.833	-	0.1209	6	2.277	1.868	4	5.750	2.003	-	0.2158
4537C/979	2	6	18.333	9.098	6	16.667	8.433	+	0.9476	6	1.283	0.772	6	1.565	0.897	-	0.7230
Habitat Means			21.667	10.841		44.222	24.195	-			2.571	1.279		4.606	2.204	-	
Fisher's		Power	0.127		Power-50%	0.127	P-value	0.1125		Power	0.107		Power-50%	0.091	P-value	0.1072	
Stouffer's		Power	0.149		Power-50%	0.179	P-value	0.1774		Power	0.115		Power-50%	0.265	P-value	0.1202	
19C/19	3	6	68.333	36.278	5	28.000	18.547	+	0.8500	6	19.563	13.098	5	3.644	2.895	-	0.9462
1642C/833	3	6	28.333	18.151	3	6.667	6.667	+	0.5891	6	5.695	4.769	3	2.103	2.103	+	0.7077
4537C/979	3	5	8.000	5.831	6	23.333	13.333	-	0.6305	5	0.900	0.804	6	2.865	1.855	-	0.6846
Habitat Means			34.889	20.087		19.333	12.849	-			8.719	6.224		2.871	2.284	+	
Fisher's		Power	0.055		Power-50%	0.382	P-value	0.5550		Power	0.025		Power-50%	0.198	P-value	0.6210	
Stouffer's		Power	0.077		Power-50%	0.493	P-value	0.5377		Power	0.031		Power-50%	0.285	P-value	0.5568	

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

Table D-77, Page 2, December 21, 1994

Table D-77. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1991. (Continued.)

Site Pair	MVD	Tectura persona - abundance (#/m^2)								Tectura persona - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	8.333	4.773	5	16.000	9.798	-	0.5532	6	1.417	0.987	5	4.330	3.561	-	0.9473
1642C/833	1	6	8.333	8.333	4	25.000	16.583	-	0.2313	6	0.907	0.907	4	9.905	8.493	-	0.2261
4537C/979	1	6	1.667	1.667	6	13.333	11.450	-	0.3464	6	0.065	0.065	6	2.075	1.959	-	0.4969
Habitat Means			6.111	4.924		18.111	12.610	-			0.796	0.653		5.437	4.671	-	
Fisher's	Power		0.173		Power-50%	0.607	P-value	0.1091		Power	0.202		Power-50%	0.256	P-value	0.1949	
Stouffer's	Power		---		Power-50%	0.690	P-value	0.0646		Power	0.225		Power-50%	0.329	P-value	0.1217	
19C/19	2	6	1.667	1.667	5	0.000	0.000	+	0.3632	6	0.152	0.152	5	0.000	0.000	-	0.3632
1642C/833	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	2	6	0.000	0.000	6	5.000	5.000	-	0.3632	6	0.000	0.000	6	0.330	0.330	-	0.3632
Habitat Means			0.556	0.556		1.667	1.667	+			0.051	0.051		0.110	0.110	+	
Fisher's	Power		---		Power-50%	---	P-value	0.5186 y		Power	---		Power-50%	---	P-value	0.5186 y	
Stouffer's	Power		---		Power-50%	---	P-value	0.7001		Power	---		Power-50%	---	P-value	0.7001	
19C/19	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
1642C/833	3	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000
4537C/979	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	

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

Table D-77, Page 3, December 21, 1994

Site Pair	MVD	Tectura scutum - abundance (#/m^2)								Tectura scutum - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	0.000	0.000	5	12.000	12.000	-	0.3739	6	0.000	0.000	5	1.898	1.898	-	0.3739
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		4.000	4.000	-			0.000	0.000		0.633	0.633	-	
Fisher's Stouffer's	Power		---		Power-50%	---	P-value	0.4092		Power	---		Power-50%	---	P-value	0.4092	
	Power		---		Power-50%	---	P-value	0.4083		Power	---		Power-50%	---	P-value	0.4083	
19C/19	2	6	5.000	3.416	5	6.000	4.000	-	0.8420	6	0.188	0.140	5	0.544	0.370	-	0.7366
1642C/833	2	6	1.667	1.667	4	7.500	4.787	-	0.2661	6	0.052	0.052	4	1.652	1.519	-	0.2813
4537C/979	2	6	6.667	4.944	6	100.000	83.307	-	0.5472	6	0.643	0.573	6	9.502	7.944	-	0.6696
Habitat Means			4.445	3.342		37.833	30.698	-			0.294	0.255		3.899	3.278	-	
Fisher's Stouffer's	Power		0.244		Power-50%	0.578	P-value	0.2131		Power	0.361		Power-50%	0.240	P-value	0.2302	
	Power		0.174		Power-50%	0.659	P-value	0.1380		Power	0.484		Power-50%	0.308	P-value	0.1682	
19C/19	3	6	0.000	0.000	5	40.000	25.495	-	0.0268	6	0.000	0.000	5	18.182	12.443	-	0.0204
1642C/833	3	6	0.000	0.000	3	56.667	29.627	-	0.1841	6	0.000	0.000	3	15.603	7.930	-	0.1835
4537C/979	3	5	74.000	37.762	6	63.333	38.528	+	0.3836	5	8.790	4.404	6	9.615	6.935	-	0.3696
Habitat Means			24.667	12.587		53.333	31.217	-			2.930	1.468		14.467	9.103	-	
Fisher's Stouffer's	Power		---		Power-50%	---	P-value	0.0317		Power	---		Power-50%	---	P-value	0.0082	
	Power		0.263		Power-50%	0.000	P-value	0.3140		Power	---		Power-50%	---	P-value	0.0231	

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

Table D-77, Page 4, December 21, 1994

Table D-77. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1991. (Continued.)

Balanomorpha - abundance (#/m^2)										Balanomorpha - biomass (g/m^2)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
19C/19	1	6	2355.000	1274.215	5	1004.000	680.151	-	0.2851	6	155.477	72.687	5	23.018	19.340	-	0.4511	
1642C/833	1	6	5450.000	3984.814	4	16705.000	10056.667	-	0.1021	6	260.480	154.442	4	631.135	126.851	-	0.0549	
4537C/979	1	6	1086.667	767.835	6	1166.667	913.439	-	0.8980	6	69.697	35.009	6	222.000	191.363	-	0.3647	
Habitat Means			2963.889	2008.955		6291.889	3883.419	-			161.885	87.379		292.051	112.518	-		
Fisher's	Power		0.000		Power-50%		0.002	P-value	0.2486	Power		---		Power-50%		---	P-value	0.0852
Stouffer's	Power		0.001		Power-50%		0.008	P-value	0.2702	Power		---		Power-50%		---	P-value	0.0690
19C/19	2	6	1365.000	674.160	5	19918.000	19285.291	-	0.2361	6	98.548	47.201	5	178.962	175.085	-	0.7992	
1642C/833	2	6	14080.000	10064.083	4	18395.000	9216.996	-	0.3170	6	473.037	303.043	4	2788.952	2457.312	-	0.2828	
4537C/979	2	6	581.667	208.061	6	3181.667	1581.650	-	0.1710	6	86.182	36.169	6	44.223	28.884	-	0.7196	
Habitat Means			5342.222	3648.768		13831.556	10027.979	-			219.256	128.804		1004.046	887.094	-		
Fisher's	Power		---		Power-50%		---	P-value	0.0451	Power		0.000		Power-50%		0.002	P-value	0.3555
Stouffer's	Power		---		Power-50%		0.008	P-value	0.0264	Power		0.000		Power-50%		0.001	P-value	0.3895
19C/19	3	6	2338.333	1404.546	5	4574.000	2435.743	-	0.2925	6	3258.922	1673.716	5	37.518	15.777	-	0.8932	
1642C/833	3	6	4831.667	3219.831	3	11500.000	7604.646	-	0.6745	6	155.730	110.732	3	7703.807	7608.408	-	0.7440	
4537C/979	3	5	3872.000	1918.115	6	1183.333	560.623	+	0.5683	5	90.480	31.762	6	3.915	1.987	-	0.2641	
Habitat Means			3680.667	2180.831		5752.444	3533.671	-			1168.377	605.403		2581.747	2542.057	-		
Fisher's	Power		0.015		Power-50%		0.001	P-value	0.3507	Power		0.000		Power-50%		0.001	P-value	0.3603 y
Stouffer's	Power		0.010		Power-50%		0.001	P-value	0.5008	Power		0.000		Power-50%		0.000	P-value	0.2077

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

Table D-77, Page 5, December 21, 1994

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
19C/19	1	6	788.333	743.094	5	436.000	272.206	+	0.6390	6	11.045	10.471	5	4.096	2.681	-	0.6242	
1642C/833	1	6	2883.333	2255.414	4	11517.500	8747.949	-	0.1249	6	20.775	12.529	4	68.023	50.468	-	0.3000	
4537C/979	1	6	63.333	21.396	6	105.000	67.909	-	0.7699	6	0.905	0.424	6	2.163	1.418	-	0.7490	
Habitat Means			1245.000	1006.635		4019.500	3029.355	-			10.908	7.808		24.761	18.189	-		
Fisher's	Power		0.006		Power-50%		0.076		P-value	0.2220	Power	0.004		Power-50%		0.047	P-value	0.3689
Stouffer's	Power		0.006		Power-50%		0.290		P-value	0.1954	Power	0.006		Power-50%		0.144	P-value	0.2621
19C/19	2	6	815.000	517.138	5	16578.000	16028.184	-	0.1333	6	10.793	8.400	5	76.198	73.454	-	0.1598	
1642C/833	2	6	9695.000	7645.729	4	14387.500	7587.438	-	0.2180	6	37.647	32.523	4	111.375	84.358	-	0.2375	
4537C/979	2	6	323.333	170.542	6	2595.000	1667.994	-	0.3502	6	1.095	0.542	6	12.532	9.693	-	0.2926	
Habitat Means			3611.111	2777.803		11186.833	8427.872	-			16.512	13.822		66.702	55.835	-		
Fisher's	Power		---		Power-50%		---		P-value	0.0380	Power	---		Power-50%		---	P-value	0.0406
Stouffer's	Power		---		Power-50%		0.029		P-value	0.0388	Power	---		Power-50%		---	P-value	0.0348
19C/19	3	6	971.667	848.365	5	4128.000	2404.122	-	0.1375	6	5.265	4.526	5	16.924	11.384	-	0.1367	
1642C/833	3	6	2298.333	1417.659	3	8866.667	7542.949	-	0.5913	6	6.288	3.830	3	55.750	47.968	-	0.5648	
4537C/979	3	5	3304.000	1942.098	6	1178.333	559.186	+	0.9249	5	25.094	17.783	6	3.790	1.893	-	0.7306	
Habitat Means			2191.333	1402.707		4724.333	3502.086	-			12.216	8.713		25.488	20.415	-		
Fisher's	Power		0.009		Power-50%		0.101		P-value	0.1717	Power	0.010		Power-50%		0.108	P-value	0.1849
Stouffer's	Power		0.000		Power-50%		0.314		P-value	0.2857	Power	0.008		Power-50%		0.170	P-value	0.3535

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

Table D-77, Page 6, December 21, 1994

Table D-77. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1991. (Continued.)

Site Pair	MVD	Balanus glandula - abundance (#/m ²)								Balanus glandula - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	883.333	425.603	5	54.000	51.536	+	0.2904	6	114.360	50.869	5	3.934	3.912	+	0.4481
1642C/833	1	6	850.000	626.386	4	3645.000	1010.788	-	0.0021	6	170.615	120.677	4	493.443	98.261	-	0.0442
4537C/979	1	6	295.000	122.304	6	785.000	672.928	-	0.5097	6	36.643	17.276	6	194.123	170.855	-	0.2597
Habitat Means			676.111	391.431		1494.667	578.417	-			107.206	62.941		230.500	91.009	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0102	Power	---		Power-50%	---		P-value	0.0574
Stouffer's		Power	---		Power-50%	0.756		P-value	0.0400	Power	---		Power-50%	---		P-value	0.0435
19C/19	2	6	418.333	245.172	5	1032.000	1022.015	-	0.5050	6	56.057	33.214	5	32.266	32.011	+	0.8435
1642C/833	2	6	1431.667	1020.612	4	1570.000	625.526	-	0.8875	6	257.032	176.862	4	44.835	23.804	+	0.1070
4537C/979	2	6	198.333	106.189	6	276.667	243.374	-	0.9286	6	48.127	32.225	6	27.190	25.566	+	0.8554
Habitat Means			682.778	457.324		959.556	630.305	-			120.405	80.767		34.764	27.127	+	
Fisher's		Power	0.013		Power-50%	0.230		P-value	0.4331	Power	0.017		Power-50%	0.119		P-value	0.1584
Stouffer's		Power	0.041		Power-50%	0.677		P-value	0.3759	Power	0.058		Power-50%	0.312		P-value	0.1644
19C/19	3	6	131.667	97.482	5	30.000	22.804	+	0.6960	6	7.098	4.519	5	1.844	1.389	-	0.8255
1642C/833	3	6	423.333	286.015	3	620.000	595.175	-	0.7546	6	34.312	21.274	3	14.410	12.639	-	0.8021
4537C/979	3	5	242.000	164.390	6	3.333	2.108	+	0.3198	5	21.090	16.822	6	0.120	0.108	+	0.4060
Habitat Means			265.667	182.629		217.778	206.696	+			20.833	14.205		5.458	4.712	+	
Fisher's		Power	0.231		Power-50%	0.291		P-value	0.3470	Power	0.197		Power-50%	0.191		P-value	0.3411
Stouffer's		Power	0.319		Power-50%	0.460		P-value	0.2160	Power	0.419		Power-50%	0.309		P-value	0.1912

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

Table D-77, Page 7, December 21, 1994

Site Pair	MVD	Semibalanus balanoides - abundance (#/m ²)								Semibalanus balanoides - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	406.667	173.410	5	478.000	478.000	-	0.0676	6	26.260	13.769	5	13.708	13.708	-	0.7121
1642C/833	1	6	1451.667	952.206	4	457.500	358.849	+	0.8334	6	63.778	38.351	4	22.962	13.260	-	0.2636
4537C/979	1	6	593.333	579.377	6	43.333	24.313	+	0.8406	6	30.957	29.856	6	4.918	3.607	+	0.4226
Habitat Means			817.222	568.331		326.278	287.054	-			40.332	27.325		13.863	10.192	+	
Fisher's		Power	0.007		Power-50%	0.020		P-value	0.7369	Power	0.003		Power-50%	0.011		P-value	0.1610
Stouffer's		Power	0.001		Power-50%	0.042		P-value	0.5824	Power	---		Power-50%	---		P-value	0.0961
19C/19	2	6	93.333	81.718	5	2156.000	2108.778	-	0.4493	6	6.763	5.982	5	69.724	69.307	-	0.5246
1642C/833	2	6	1998.333	1209.968	4	465.000	465.000	+	0.0381	6	125.035	71.941	4	21.438	21.438	-	0.0165
4537C/979	2	6	1.667	1.667	6	218.333	117.059	-	0.0298	6	0.045	0.045	6	3.988	3.237	-	0.0520
Habitat Means			697.778	431.118		946.444	896.946	-			43.948	25.989		31.717	31.327	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0758	Power	0.013		Power-50%	0.007		P-value	0.1250
Stouffer's		Power	0.100		Power-50%	0.032		P-value	0.1529	Power	0.017		Power-50%	0.022		P-value	0.2595
19C/19	3	6	1.667	1.667	5	110.000	67.823	-	0.1948	6	0.005	0.005	5	3.942	3.077	-	0.1834
1642C/833	3	6	1881.667	1863.689	3	0.000	0.000	+	0.1195	6	110.253	106.776	3	0.000	0.000	+	0.0874
4537C/979	3	5	166.000	105.148	6	1.667	1.667	+	0.1865	5	9.302	6.183	6	0.005	0.005	+	0.1707
Habitat Means			683.111	656.835		37.222	23.163	+			39.853	37.655		1.316	1.027	+	
Fisher's		Power	0.115		Power-50%	0.116		P-value	0.1021	Power	---		Power-50%	---		P-value	0.0775
Stouffer's		Power	---		Power-50%	0.229		P-value	0.0648	Power	---		Power-50%	---		P-value	0.0525

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

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Table D-77. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1991. (C <inued.)

Lacuna spp. - abundance (#/m ²)										Lacuna spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	0.000	0.000	5	0.000	0.000	o	1.000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.655		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's		Power	---		Power-50%	---	P-value	0.500		Power	---		Power-50%	---	P-value	0.5000			
19C/19	2	6	0.000	0.000	5	108.000	108.000	-	0.373	6	0.000	0.000	5	0.782	0.782	-	0.3739		
1642C/833	2	6	8.333	6.540	4	0.000	0.000	+	0.188	6	0.060	0.060	4	0.000	0.000	+	0.3290		
4537C/979	2	6	11.667	4.014	6	8.333	5.426	+	0.382	6	0.108	0.045	6	0.028	0.021	+	0.2118		
Habitat Means			6.667	3.518		38.778	37.809	+			0.056	0.035		0.270	0.268	+			
Fisher's		Power	0.042		Power-50%	0.131	P-value	0.205	y	Power	0.001		Power-50%	0.001	P-value	0.2028	y		
Stouffer's		Power	0.001		Power-50%	0.186	P-value	0.128		Power	---		Power-50%	---	P-value	0.0998			
19C/19	3	6	5.000	3.416	5	128.000	128.000	-	0.778	6	0.073	0.062	5	0.904	0.904	-	0.9969		
1642C/833	3	6	76.667	46.809	3	0.000	0.000	-	0.080	6	0.647	0.366	3	0.000	0.000	-	0.0778		
4537C/979	3	5	226.000	115.784	6	856.667	409.607	-	0.924	5	3.002	1.510	6	11.162	5.553	-	0.6990		
Habitat Means			102.556	55.336		328.222	179.202	-			1.241	0.646		4.022	2.152	-			
Fisher's		Power	0.477		Power-50%	0.171	P-value	0.742	x	Power	0.437		Power-50%	0.172	P-value	0.7341	x		
Stouffer's		Power	0.135		Power-50%	0.309	P-value	0.753		Power	0.056		Power-50%	0.207	P-value	0.6988			

Littorina spp. - abundance (#/m ²)										Littorina spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	605.000	321.649	5	244.000	137.862	+	0.835	6	17.262	8.255	5	37.976	26.517	-	0.9951		
1642C/833	1	6	791.667	463.777	4	2785.000	1519.685	-	0.286	6	16.777	8.528	4	12.248	4.556	+	0.5777		
4537C/979	1	6	4131.667	2443.464	6	535.000	195.614	+	0.031	6	167.430	79.680	6	44.415	15.704	+	0.7647		
Habitat Means			1842.778	1076.297		1188.000	617.720				67.156	32.154		31.546	15.592	-			
Fisher's		Power	0.004		Power-50%	0.001	P-value	0.124		Power	0.001		Power-50%	0.000	P-value	0.4479			
Stouffer's		Power	---		Power-50%	0.012	P-value	0.094		Power	0.028		Power-50%	0.041	P-value	0.3031			
19C/19	2	6	840.000	253.022	5	584.000	383.388	+	0.258	6	40.097	21.733	5	9.484	6.123	+	0.3173		
1642C/833	2	6	4386.667	1705.078	4	3422.500	3062.250	+	0.158	6	41.893	10.626	4	11.767	10.103	+	0.3553		
4537C/979	2	6	6788.333	2524.313	6	431.667	239.825	+	0.067	6	157.030	37.981	6	19.948	11.066	+	0.0001		
Habitat Means			4005.000	1494.138		1479.389	1228.488	+			79.673	23.447		13.733	9.097	+			
Fisher's		Power	---		Power-50%	---	P-value	0.012		Power	---		Power-50%	---	P-value	0.0001			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.007		Power	---		Power-50%	---	P-value	0.0000			
19C/19	3	6	131.667	79.892	5	140.000	94.921	-	0.819	6	2.528	1.694	5	0.426	0.149	+	0.9127		
1642C/833	3	6	2170.000	898.328	3	186.667	123.333	+	0.407	6	27.180	11.150	3	0.443	0.209	+	0.2389		
4537C/979	3	5	524.000	468.387	6	235.000	202.184	+	0.903	5	12.828	12.377	6	25.337	24.270	-	0.5158		
Habitat Means			941.889	482.202		187.222	140.146	+			14.179	8.407		8.735	8.209	+			
Fisher's		Power	0.008		Power-50%	0.010	P-value	0.447		Power	0.004		Power-50%	0.008	P-value	0.3783			
Stouffer's		Power	0.015		Power-50%	0.020	P-value	0.332		Power	0.014		Power-50%	0.027	P-value	0.4805			

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

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Table D-77. Invertebrate Abundance and Biomass. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	375.000	198.893	5	182.000	111.642	+	0.4621	6	14.572	7.672	5	36.072	25.871	-	0.8739		
1642C/833	1	6	245.000	123.983	4	1492.500	737.070	-	0.1999	6	11.775	8.732	4	6.257	3.063	-	0.6201		
4537C/979	1	6	4081.667	2410.878	6	370.000	127.958	-	0.7824	6	166.565	79.299	6	40.972	15.792	-	0.8457		
Habitat Means			1567.222	911.251		681.500	325.557	+			64.304	31.901		27.767	14.909	+			
Fisher's			Power	0.006		Power-50%	0.004	P-value	0.5415	Power	0.002			Power-50%	0.001	P-value	0.5169		
Stouffer's			Power	0.008		Power-50%	0.012	P-value	0.5760	Power	0.021			Power-50%	0.044	P-value	0.3598		
19C/19	2	6	581.667	292.967	5	170.000	91.706	+	0.2633	6	36.675	22.466	5	7.016	4.561	-	0.2926		
1642C/833	2	6	1478.333	465.871	4	812.500	638.192	+	0.1361	6	27.678	9.415	4	4.088	3.151	-	0.4302		
4537C/979	2	6	5328.333	2226.452	6	230.000	208.231	-	0.0125	6	136.038	33.902	6	12.135	10.653	-	0.0001		
Habitat Means			2462.778	995.097		404.167	312.710	-			66.797	21.928		7.746	6.122	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0033	Power	---			Power-50%	---	P-value	0.0002		
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0010	Power	---			Power-50%	---	P-value	0.0000		
19C/19	3	6	36.667	29.059	5	10.000	7.746	+	0.6989	6	1.602	1.542	5	0.034	0.034	+	0.9248		
1642C/833	3	6	980.000	474.124	3	23.333	14.530	+	0.1622	6	19.323	8.816	3	0.083	0.064	+	0.3261		
4537C/979	3	5	436.000	426.035	6	130.000	126.016	+	0.6180	5	11.750	11.593	6	21.200	21.100	-	0.5708		
Habitat Means			484.222	309.739		54.444	49.431	+			10.892	7.317		7.106	7.066	-			
Fisher's			Power	0.014		Power-50%	0.067	P-value	0.1485	Power	0.013			Power-50%	0.058	P-value	0.4411		
Stouffer's			Power	0.051		Power-50%	0.249	P-value	0.1173	Power	0.051			Power-50%	0.142	P-value	0.4918		

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	230.000	142.408	5	62.000	34.986	-	0.8091	6	2.690	1.703	5	1.904	0.923	+	0.7420		
1642C/833	1	6	546.667	366.002	4	1292.500	803.476	-	0.2689	6	5.002	2.560	4	5.990	1.572	-	0.6979		
4537C/979	1	6	50.000	32.965	6	165.000	97.254	-	0.6089	6	0.865	0.385	6	3.443	1.595	-	0.2625		
Habitat Means			275.556	180.458		506.500	311.905	-			2.852	1.549		3.779	1.363	-			
Fisher's			Power	0.007		Power-50%	0.128	P-value	0.2830	Power	0.012			Power-50%	0.061	P-value	0.3122		
Stouffer's			Power	0.007		Power-50%	0.440	P-value	0.1853	Power	0.006			Power-50%	0.166	P-value	0.1494		
19C/19	2	6	258.333	130.062	5	414.000	303.984	-	0.4230	6	3.422	0.935	5	2.468	1.582	+	0.8898		
1642C/833	2	6	2908.333	1719.307	4	2610.000	2429.592	-	0.2263	6	14.215	4.655	4	7.680	6.977	-	0.3767		
4537C/979	2	6	1460.000	599.361	6	201.667	109.435	-	0.1163	6	20.992	7.156	6	7.813	4.393	+	0.0527		
Habitat Means			1542.222	816.243		1075.222	947.670	+			12.876	4.249		5.987	4.317	+			
Fisher's			Power	0.000		Power-50%	0.000	P-value	0.1043	Power	---			Power-50%	---	P-value	0.0570		
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0458	Power	---			Power-50%	---	P-value	0.0186		
19C/19	3	6	95.000	73.473	5	130.000	93.702	-	0.7027	6	0.927	0.412	5	0.392	0.141	+	0.8765		
1642C/833	3	6	1190.000	488.276	3	163.333	123.468	+	0.6041	6	7.857	3.893	3	0.360	0.191	-	0.0711		
4537C/979	3	5	88.000	54.717	6	105.000	77.792	-	0.9050	5	1.078	0.814	6	4.137	3.251	-	0.3777		
Habitat Means			457.667	205.489		132.778	98.321	-			3.287	1.706		1.630	1.194	+			
Fisher's			Power	0.000		Power-50%	0.211	P-value	0.6231 y	Power	0.060			Power-50%	0.170	P-value	0.1886		
Stouffer's			Power	0.000		Power-50%	0.394	P-value	0.5196	Power	0.132			Power-50%	0.302	P-value	0.4338		

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

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Table D-77, Page 12, December 21, 1994

Table D-77. Invertebrate Abundance and Biomass. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	2846.667	2583.328	5	166.000	99.579	+	0.4492	6	681.453	668.738	5	4.180	3.745	+	0.4753
1642C/833	1	6	68.333	41.345	4	23025.000	21585.684	-	0.0225	6	17.242	13.104	4	3440.657	3367.510	-	0.1031
4537C/979	1	6	618.333	293.058	6	348.333	313.118	+	0.6590	6	200.035	91.907	6	220.438	209.650	-	0.8280
Habitat Means			1177.778	972.577		7846.444	7332.794	+			299.577	257.916		1221.758	1193.635	-	
Fisher's			Power	0.070		Power-50%	0.115	P-value	0.5147 _{xy}	Power	0.001			Power-50%	0.050	P-value	0.2213
Stouffer's			Power	0.141		Power-50%	0.267	P-value	0.7010	Power	0.000			Power-50%	0.143	P-value	0.2185
19C/19	2	6	2258.333	749.104	5	890.000	704.571	+	0.2346	6	358.590	188.663	5	3.996	2.183	+	0.2304
1642C/833	2	6	4386.667	1416.311	4	1127.500	3644.369	-	0.3530	6	327.088	131.806	4	89.438	61.597	+	0.4472
4537C/979	2	6	3426.667	1503.511	6	351.667	238.179	+	0.0076	6	740.785	330.171	6	217.918	203.779	+	0.0685
Habitat Means			3357.222	1222.975		4123.056	1529.040	+			475.488	216.880		103.784	89.186	-	
Fisher's			Power	---		Power-50%	---	P-value	0.0148 _y	Power	---			Power-50%	---	P-value	0.0289
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0178	Power	---			Power-50%	---	P-value	0.0138
19C/19	3	6	7985.000	4881.537	5	2136.000	995.945	+	0.4948	6	573.438	444.661	5	34.252	19.892	+	0.3302
1642C/833	3	6	7051.667	3461.595	3	1410.000	1305.540	-	0.3747	6	338.620	178.339	3	2.007	1.892	+	0.1201
4537C/979	3	5	676.000	390.187	6	941.667	513.844	-	0.9757	5	167.634	152.681	6	18.930	10.829	-	0.6294
Habitat Means			5237.556	2911.106		1495.889	938.443	+			359.897	258.560		18.396	10.871	+	
Fisher's			Power	0.000		Power-50%	0.000	P-value	0.2786	Power	---			Power-50%	---	P-value	0.0731
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.2816	Power	---			Power-50%	---	P-value	0.0803

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
1642C/833	1	6	1.667	1.667	4	20.000	11.547	-	0.1768	6	0.002	0.002	4	0.025	0.015	-	0.1674
4537C/979	1	6	13.333	13.333	6	0.000	0.000	+	0.3632	6	0.055	0.055	6	0.000	0.000	+	0.3632
Habitat Means			5.000	5.000		6.667	3.849	-			0.019	0.019		0.008	0.005	-	
Fisher's			Power	0.038		Power-50%	---	P-value	0.3555	Power	0.059			Power-50%	---	P-value	0.3448 _y
Stouffer's			Power	0.098		Power-50%	---	P-value	0.5455	Power	0.000			Power-50%	---	P-value	0.5398
19C/19	2	6	1.667	1.667	5	142.000	137.055	-	0.2563	6	0.000	0.000	5	0.126	0.126	-	0.3637
1642C/833	2	6	981.667	627.218	4	257.500	257.500	+	0.7219	6	0.737	0.467	4	0.280	0.280	+	0.7500
4537C/979	2	6	461.667	155.508	6	0.000	0.000	+	0.0001	6	0.400	0.126	6	0.000	0.000	+	0.0002
Habitat Means			481.667	261.464		133.167	131.518	+			0.379	0.198		0.135	0.135	+	
Fisher's			Power	---		Power-50%	---	P-value	0.0012	Power	---			Power-50%	---	P-value	0.0020
Stouffer's			Power	---		Power-50%	0.170	P-value	0.0009	Power	---			Power-50%	---	P-value	0.0012
19C/19	3	6	13.333	13.333	5	74.000	71.526	-	0.5726	6	0.015	0.015	5	0.076	0.076	-	0.7582
1642C/833	3	6	5300.000	3197.750	3	0.000	0.000	+	0.0020	6	5.163	3.227	3	0.000	0.000	+	0.0031
4537C/979	3	5	302.000	180.261	6	368.333	331.606	-	0.6280	5	0.360	0.216	6	0.418	0.372	-	0.6754
Habitat Means			1871.778	1130.448		147.444	134.377	-			1.846	1.153		0.165	0.149	-	
Fisher's			Power	0.002		Power-50%	0.007	P-value	0.5671 _{xy}	Power	0.000			Power-50%	0.021	P-value	0.6612 _{xy}
Stouffer's			Power	0.004		Power-50%	0.026	P-value	0.8235	Power	0.001			Power-50%	0.026	P-value	0.8382

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

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Table D-77. Invertebrate Abundance and Biomass, Prince William Sound, Exposed Rocky, June 1991. (Continued.)

Pagurus spp. - abundance (#/m ²)										Pagurus spp. - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	1	6	38.333	36.370	6	3.333	3.333	+	0.4642	6	0.820	0.696	6	0.157	0.157	-	0.5099
Habitat Means			12.778	12.123		1.111	1.111	+			0.273	0.232		0.052	0.052	-	
Fisher's		Power	0.001		Power-50%	0.003	P-value	0.4584		Power	0.002		Power-50%	0.007	P-value	0.4807	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.2699		Power	0.013		Power-50%	0.050	P-value	0.2905	
19C/19	2	6	105.000	61.793	5	52.000	38.781	+	0.4656	6	3.890	2.663	5	1.654	1.013	+	0.4512
1642C/833	2	6	138.333	64.001	4	0.000	0.000	-	0.0811	6	1.720	0.678	4	0.000	0.000	+	0.0351
4537C/979	2	6	126.667	60.037	6	10.000	8.165	-	0.0990	6	2.848	1.091	6	0.185	0.175	+	0.0369
Habitat Means			123.333	61.944		20.667	15.649	-			2.819	1.477		0.613	0.396	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0178		Power	---		Power-50%	---	P-value	0.0041	
Stouffer's		Power	---		Power-50%	0.481	P-value	0.0080		Power	---		Power-50%	---	P-value	0.0016	
19C/19	3	6	20.000	8.165	5	26.000	14.000	-	0.9171	6	1.720	1.024	5	1.394	0.581	+	0.8354
1642C/833	3	6	16.667	16.667	3	0.000	0.000	-	0.5081	6	0.212	0.212	3	0.000	0.000	+	0.5714
4537C/979	3	5	120.000	79.310	6	313.333	107.755	-	0.0885	5	12.926	8.486	6	11.703	4.319	+	0.3047
Habitat Means			52.222	34.714		113.111	40.585	-			4.953	3.241		4.366	1.633	+	
Fisher's		Power	0.000		Power-50%	0.080	P-value	0.2115		Power	0.198		Power-50%	0.024	P-value	0.2370	
Stouffer's		Power	0.000		Power-50%	0.183	P-value	0.1276		Power	0.267		Power-50%	0.055	P-value	0.1179	

1. Blank space in between species labels indicates no data was collected for that species.

2. Only one site pair.

Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
19C/19	2	6	3.333	3.333	5	8.000	4.899	-	0.4124	6	8.687	8.687	5	9.030	5.575	-	0.3582
1642C/833	2	6	6.667	6.667	4	0.000	0.000	+	0.2744	6	6.522	6.522	4	0.000	0.000	-	0.4880
4537C/979	2	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.193	0.193	6	0.507	0.507	-	0.9435
Habitat Means			3.889	3.889		3.222	2.189	+			5.134	5.134		3.179	2.027	-	
Fisher's		Power	0.885		Power-50%	---	P-value	0.4436		Power	0.328		Power-50%	---	P-value	0.4813	
Stouffer's		Power	0.776		Power-50%	---	P-value	0.3782		Power	0.048		Power-50%	---	P-value	0.5133	
19C/19	3	6	3.333	2.108	5	62.000	59.532	-	0.4955	6	7.943	5.043	5	113.022	110.541	-	0.7520
1642C/833	3	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000
4537C/979	3	5	0.000	0.000	6	3.333	3.333	-	0.3632	5	0.000	0.000	6	10.223	10.223	-	0.3632
Habitat Means			1.111	0.703		21.778	20.955	-			2.648	1.681		41.082	40.255	-	
Fisher's		Power	0.203		Power-50%	0.134	P-value	0.2698		Power	0.103		Power-50%	0.158	P-value	0.3441	
Stouffer's		Power	0.285		Power-50%	0.063	P-value	0.1737		Power	0.188		Power-50%	0.000	P-value	0.1993	

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

Table D-77, Page 15. December 21, 1994

Table D-77, Page 16. December 21, 1994

Table D-77. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1991. (Continued.)

Site Pair	MVD	Nucella lima - abundance (#/m ²)								Nucella lima - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power	---			Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
19C/19	2	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
1642C/833	2	6	6.667	6.667	4	0.000	0.000	+	0.3632	6	6.522	6.522	4	0.000	0.000	-	0.3632
4537C/979	2	6	1.667	1.667	6	0.000	0.000	-	0.3632	6	0.193	0.193	6	0.000	0.000	-	0.3632
Habitat Means			2.778	2.778		0.000	0.000	+			2.238	2.238		0.000	0.000	-	
Fisher's	Power	---			Power-50%	---		P-value	0.2231	Power	---		Power-50%	---		P-value	0.2231
Stouffer's	Power	---			Power-50%	---		P-value	0.1155	Power	---		Power-50%	---		P-value	0.1155
19C/19	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
1642C/833	3	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000
4537C/979	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power	---			Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000

Site Pair	MVD	Nucella lamellosa - abundance (#/m ²)								Nucella lamellosa - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
1642C/833	1	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power	---			Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
19C/19	2	6	3.333	3.333	5	8.000	4.899	-	0.4385	6	8.687	8.687	5	9.030	5.575	-	0.4804
1642C/833	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
4537C/979	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			1.111	1.111		2.667	1.633	-			2.896	2.896		3.010	1.858	-	
Fisher's	Power	0.000			Power-50%	---		P-value	0.4451	Power	0.000		Power-50%	---		P-value	0.4665
Stouffer's	Power	0.000			Power-50%	---		P-value	0.4200	Power	0.000		Power-50%	---		P-value	0.4270
19C/19	3	6	3.333	2.108	5	62.000	59.532	-	0.4955	6	7.943	5.043	5	113.022	110.541	-	0.7520
1642C/833	3	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000
4537C/979	3	5	0.000	0.000	6	3.333	3.333	-	0.3632	5	0.000	0.000	6	10.223	10.223	-	0.3632
Habitat Means			1.111	0.703		21.778	20.955	-			2.648	1.661		41.082	40.255	-	
Fisher's	Power	0.200			Power-50%	0.123		P-value	0.2698	Power	0.092		Power-50%	0.177		P-value	0.3441
Stouffer's	Power	0.282			Power-50%	0.059		P-value	0.1737	Power	0.183		Power-50%	0.000		P-value	0.1993

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

Table D-77, Page 17, December 21, 1994

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

Table D-77, Page 18, December 21, 1994

Table D-77. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1991. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	8423.333	8423.333	5	10.000	10.000	+	0.6420	6	7.113	7.113	5	0.236	0.236	+	0.8468		
1642C/833	1	6	0.000	0.000	4	2.500	2.500	-	0.3910	6	0.000	0.000	4	0.008	0.008	-	0.6678		
4537C/979	1	6	1128.333	801.708	6	3.333	2.108	+	0.3139	6	0.615	0.436	6	0.128	0.126	-	0.5882		
Habitat Means			3183.889	3075.014		5.278	4.869	+			2.576	2.516		0.124	0.123	-			
Fisher's		Power	0.974		Power-50%	0.312	P-value	0.3787		Power	0.065		Power-50%	0.351	P-value	0.5464			
Stouffer's		Power	0.648		Power-50%	0.348	P-value	0.2898		Power	0.018		Power-50%	0.343	P-value	0.3827			
19C/19	2	6	131.667	66.604	5	48.000	45.541	+	0.1595	6	0.968	0.561	5	0.550	0.424	+	0.4575		
1642C/833	2	6	55.000	39.728	4	65.000	38.837	-	0.4456	6	0.768	0.577	4	1.232	0.867	-	0.1888		
4537C/979	2	6	3966.667	1828.815	6	561.667	487.842	+	0.0009	6	4.883	1.564	6	0.848	0.696	+	0.0157		
Habitat Means			1384.445	645.049		224.889	190.740	-			2.206	0.901		0.877	0.662	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0019		Power	---		Power-50%	---	P-value	0.0456			
Stouffer's		Power	---		Power-50%	0.018	P-value	0.0027		Power	---		Power-50%	---	P-value	0.0561			
19C/19	3	6	1163.333	795.222	5	296.000	135.447	+	0.3515	6	10.148	5.302	5	3.362	1.275	+	0.1183		
1642C/833	3	6	131.667	44.603	3	60.000	41.633	+	0.9470	6	3.448	1.514	3	1.463	1.185	+	0.6888		
4537C/979	3	5	1798.000	1287.204	6	953.333	380.619	+	0.3640	5	6.292	2.031	6	6.785	2.341	-	0.9074		
Habitat Means			1031.000	709.010		436.444	185.900	-			6.629	2.949		3.870	1.600	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.2116		Power	0.000		Power-50%	0.000	P-value	0.1738			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1503		Power	0.000		Power-50%	0.000	P-value	0.3078			

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	18.333	14.701	5	6.000	6.000	+	0.7999	6	0.050	0.050	5	0.004	0.004	+	0.7354		
1642C/833	1	6	38.333	38.333	4	47.500	35.444	-	0.8597	6	0.038	0.038	4	0.045	0.033	-	0.4309		
4537C/979	1	6	66.667	59.029	6	0.000	0.000	+	0.1582	6	1.247	1.041	6	0.000	0.000	+	0.1779		
Habitat Means			41.111	37.354		17.833	13.815	+			0.445	0.376		0.016	0.012	-			
Fisher's		Power	0.440		Power-50%	0.217	P-value	0.2359		Power	0.069		Power-50%	0.032	P-value	0.2918			
Stouffer's		Power	0.504		Power-50%	0.309	P-value	0.1222		Power	0.205		Power-50%	0.094	P-value	0.2005			
19C/19	2	6	48.333	36.825	5	238.000	230.573	-	0.8730	6	0.795	0.715	5	0.148	0.138	+	0.5590		
1642C/833	2	6	81.667	41.506	4	465.000	277.984	-	0.2507	6	0.210	0.106	4	0.405	0.192	-	0.6135		
4537C/979	2	6	2771.667	1984.821	6	58.333	37.454	+	0.0011	6	15.457	7.826	6	0.162	0.143	-	0.0006		
Habitat Means			967.222	687.717		253.778	182.004	-			5.487	2.882		0.238	0.158	-			
Fisher's		Power	0.139		Power-50%	0.006	P-value	0.4445 ^{xy}		Power	---		Power-50%	---	P-value	0.0034			
Stouffer's		Power	0.113		Power-50%	0.016	P-value	0.9839		Power	---		Power-50%	---	P-value	0.0027			
19C/19	3	6	390.000	102.989	5	36.000	33.556	+	0.0137	6	4.492	2.074	5	0.042	0.028	+	0.0101		
1642C/833	3	6	66.667	49.643	3	2100.000	2065.002	-	0.0601	6	0.270	0.201	3	3.534	3.508	-	0.3191		
4537C/979	3	5	174.000	69.900	6	0.000	0.000	+	0.3632	5	0.000	0.000	6	1.277	0.803	-	0.3632		
Habitat Means			210.222	74.177		712.000	699.519	+			1.587	0.758		1.624	1.446	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0366 ^{xy}		Power	0.000		Power-50%	0.013	P-value	0.3123 ^x			
Stouffer's		Power	0.011		Power-50%	0.027	P-value	0.3073		Power	0.000		Power-50%	0.000	P-value	0.2849			

A At least one site pair p-value < 0.05 in opposite direction of overall tests.
 y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

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x At least one site pair p-value < 0.05 in opposite direction of overall tests.
 y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-77, Page 20, December 21, 1994

Table D-77. Invertebrate Abundance and Biomass. Prince William Sound, Exposed Rocky, June 1991. (Continued.)

Site Pair	MVD	Errant polychaetes - abundance (#/m²)								Errant polychaetes - biomass (g/m²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	8.333	5.426	5	0.000	0.000	+	0.1757	6	0.083	0.059	5	0.000	0.000	+	0.1763
1642C/833	1	6	0.000	0.000	4	12.500	9.465	-	0.1961	6	0.000	0.000	4	0.023	0.013	-	0.1819
4537C/979	1	6	123.333	82.165	6	11.667	11.667	+	0.4030	6	0.315	0.286	6	0.037	0.037	+	0.4842
Habitat Means			43.889	29.197		8.056	7.044	-			0.133	0.115		0.020	0.017	+	
Fisher's		Power	0.600		Power-50%	0.498	P-value	0.2187		Power	0.130		Power-50%	0.066	P-value	0.2467	
Stouffer's		Power	0.273		Power-50%	0.534	P-value	0.3321		Power	0.028		Power-50%	0.102	P-value	0.3826	
19C/19	2	6	46.667	38.959	5	6.000	6.000	+	0.4130	6	0.073	0.051	5	0.000	0.000	+	0.0913
1642C/833	2	6	103.333	64.790	4	315.000	256.401	-	0.5901	6	0.092	0.058	4	0.485	0.269	-	0.4610
4537C/979	2	6	1380.000	972.471	6	125.000	96.601	+	0.0055	6	3.018	1.823	6	0.107	0.097	+	0.0042
Habitat Means			510.000	358.740		148.667	119.667	+			1.061	0.644		0.197	0.122	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0158		Power	---		Power-50%	---	P-value	0.0041	
Stouffer's		Power	---		Power-50%	0.064	P-value	0.0112		Power	---		Power-50%	---	P-value	0.0065	
19C/19	3	6	1146.667	869.447	5	88.000	65.909	+	0.1222	6	0.773	0.490	5	0.044	0.029	-	0.4373
1642C/833	3	6	46.667	26.916	3	370.000	370.000	-	0.6792	6	0.030	0.014	3	0.574	0.574	-	0.9253
4537C/979	3	5	514.000	371.667	6	781.667	340.465	-	0.6893	5	2.086	1.369	6	2.412	1.273	-	0.5149
Habitat Means			569.111	422.677		413.222	258.791	-			0.963	0.624		1.010	0.625	-	
Fisher's		Power	0.017		Power-50%	0.114	P-value	0.6205		Power	0.011		Power-50%	0.061	P-value	0.3764	
Stouffer's		Power	0.009		Power-50%	0.169	P-value	0.4485		Power	0.007		Power-50%	0.103	P-value	0.3491	

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

Table D-77, Page 21, December 21, 1994

Site Pair	MVD	Sedentary polychaetes - abundance (#/m^2)								Sedentary polychaetes - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
19C/19	1	6	3.333	3.333	5	0.000	0.000	+	0.3632	6	0.008	0.008	5	0.000	0.000	-	0.3632
1642C/833	1	6	0.000	0.000	4	72.500	72.500	-	0.3910	6	0.000	0.000	4	0.113	0.113	-	0.3910
4537C/979	1	6	216.667	138.580	6	5.000	5.000	+	0.3094	6	0.239	0.152	6	0.000	0.000	+	0.1862
Habitat Means			73.333	47.304		25.833	25.833	-			0.082	0.053		0.038	0.038	-	
Fisher's	Power		0.987		Power-50%	0.698	P-value	0.2706		Power	0.988		Power-50%	0.716	P-value	0.1977	
Stouffer's	Power		0.634		Power-50%	0.726	P-value	0.2490		Power	0.662		Power-50%	0.667	P-value	0.1752	
19C/19	2	6	0.000	0.000	5	4.000	4.000	-	0.3739	6	0.000	0.000	5	0.012	0.012	-	0.5035
1642C/833	2	6	15.000	8.062	4	370.000	343.851	-	0.4744	6	0.000	0.000	4	0.038	0.038	-	0.3800
4537C/979	2	6	1676.667	920.086	6	30.000	24.495	-	0.0024	6	0.622	0.260	6	1.092	1.092	-	0.0013
Habitat Means			563.889	309.383		134.667	124.115	-			0.207	0.087		0.381	0.381	-	
Fisher's	Power		0.762		Power-50%	0.000	P-value	0.3975xy		Power	---		Power-50%	---	P-value	0.0020	
Stouffer's	Power		0.844		Power-50%	0.000	P-value	0.9755		Power	---		Power-50%	---	P-value	0.0005	
19C/19	3	6	1498.333	911.232	5	174.000	166.601	+	0.4255	6	0.315	0.149	5	0.210	0.210	-	0.4452
1642C/833	3	6	60.000	46.690	3	2983.333	2983.333	-	0.7160	6	0.072	0.066	3	0.687	0.687	-	0.7329
4537C/979	3	5	1098.000	692.946	6	663.333	366.467	+	0.9088	5	3.133	1.933	6	2.507	1.683	+	0.6006
Habitat Means			885.444	550.289		1273.555	1172.134	+			1.173	0.716		1.135	0.860	+	
Fisher's	Power		0.004		Power-50%	0.100	P-value	0.4743 y		Power	0.001		Power-50%	0.016	P-value	0.3879	
Stouffer's	Power		0.005		Power-50%	0.262	P-value	0.4485		Power	0.002		Power-50%	0.053	P-value	0.3177	

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

Table D-77, Page 22, December 21, 1994

Table D-77. Invertebrate Abundance and Biomass. Prince William Sound. Exposed Rocky. June 1991. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	760.000	485.990	5	40.000	35.214	+	0.4837	6	0.972	0.776	5	0.002	0.002	+	0.2870		
1642C/833	1	6	0.000	0.000	4	360.000	208.487	-	0.1817	6	0.000	0.000	4	0.120	0.080	-	0.1838		
4537C/979	1	6	2191.667	1602.596	6	0.000	0.000	+	0.0802	6	0.577	0.412	6	0.000	0.000	+	0.0848		
Habitat Means			983.889	696.195		133.333	81.234	+			0.516	0.396		0.041	0.027	+			
Fisher's		Power	0.023		Power-50%	0.027	P-value	0.1492		Power	0.006		Power-50%	0.005	P-value	0.1089			
Stouffer's		Power	0.009		Power-50%	0.047	P-value	0.1566		Power	0.005		Power-50%	0.017	P-value	0.1390			
19C/19	2	6	608.333	436.939	5	190.000	180.167	+	0.2109	6	0.517	0.423	5	0.032	0.032	+	0.4447		
1642C/833	2	6	426.667	321.597	4	627.500	424.448	-	0.5109	6	0.072	0.048	4	0.100	0.076	-	0.9664		
4537C/979	2	6	6991.667	2201.389	6	795.000	645.052	+	0.0019	6	2.055	0.522	6	0.803	0.708	+	0.0451		
Habitat Means			2675.556	986.642		537.500	416.556	-			0.881	0.331		0.312	0.272	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0042		Power	---		Power-50%	---	P-value	0.0640			
Stouffer's		Power	---		Power-50%	0.010	P-value	0.0045		Power	---		Power-50%	---	P-value	0.0315			
19C/19	3	6	3345.000	1897.420	5	564.000	364.700	+	0.1008	6	0.597	0.332	5	0.182	0.093	-	0.4617		
1642C/833	3	6	1101.667	875.246	3	776.667	776.667	+	0.8660	6	0.210	0.176	3	0.160	0.160	-	0.9390		
4537C/979	3	5	1764.000	1143.165	6	1626.667	778.733	+	0.9336	5	0.426	0.210	6	1.075	0.720	-	0.2532		
Habitat Means			2070.222	1305.277		989.111	640.033	+			0.411	0.239		0.472	0.324	+			
Fisher's		Power	0.000		Power-50%	0.025	P-value	0.1641		Power	0.000		Power-50%	0.014	P-value	0.5809			
Stouffer's		Power	0.002		Power-50%	0.204	P-value	0.2815		Power	0.000		Power-50%	0.070	P-value	0.7670			

Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
19C/19	1	6	15268.333	8270.803	5	1568.000	833.321	+	0.1977	6	868.042	699.222	5	76.702	51.783	+	0.3103		
1642C/833	1	6	6453.333	4452.989	4	44067.500	21749.436	-	0.1021	6	297.395	159.267	4	4108.112	3463.952	-	0.1892		
4537C/979	1	6	12355.000	6840.616	6	2140.000	1156.007	+	0.9892	6	454.789	199.094	6	491.245	264.200	-	0.5510		
Habitat Means			11358.889	6521.469		15925.167	7912.921	+			540.075	352.528		1558.686	1259.978	-			
Fisher's		Power	0.002		Power-50%	0.002	P-value	0.4076		Power	0.000		Power-50%	0.007	P-value	0.2663			
Stouffer's		Power	0.004		Power-50%	0.009	P-value	0.6688		Power	0.000		Power-50%	0.065	P-value	0.1937			
19C/19	2	6	5548.333	753.036	5	22462.000	19602.203	-	0.6474	6	519.468	185.472	5	214.645	178.957	-	0.0454		
1642C/833	2	6	25158.334	11842.901	4	37267.500	13786.972	-	0.3206	6	878.747	323.934	4	2928.144	2459.774	-	0.5480		
4537C/979	2	6	34063.332	2532.183	6	6116.667	2217.978	-	0.0138	6	1163.912	316.681	6	304.486	199.393	-	0.0250		
Habitat Means			21590.000	5042.707		21948.722	11869.031	-			854.042	275.362		1149.092	946.041	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.4309		Power	---		Power-50%	---	P-value	0.0094			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.9290		Power	---		Power-50%	---	P-value	0.0173			
19C/19	3	6	20048.334	9061.829	5	9612.000	4432.519	+	0.3787	6	3912.954	2008.154	5	222.417	134.425	-	0.3200		
1642C/833	3	6	23586.666	10359.512	3	23073.334	12127.619	+	0.9702	6	533.659	271.402	3	7989.029	7876.606	-	0.6214		
4537C/979	3	5	19040.000	5140.770	6	17121.666	7656.250	+	0.8705	5	546.708	198.633	6	248.548	89.805	+	0.2256		
Habitat Means			20891.667	8187.370		16602.333	8072.129	+			1671.107	826.063		2819.998	2700.279	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.3759		Power	0.000		Power-50%	0.000	P-value	0.1867			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.3506		Power	0.000		Power-50%	0.000	P-value	0.1496			

A. At least one site pair P-value is significant (P-value < 0.05).
 v. Direction of difference between habitat means is different than direction of overall tests.
 z. Only one site pair.

Table D-77. Page 23. December 21, 1994

Table D-78. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	23.333	9.189	6	25.000	9.916	-	0.9541	6	4.338	1.912	6	10.818	6.275	-	0.9098		
14.2C/14.2	1	6	50.000	34.545	6	8.333	6.540	+	0.1571	6	17.047	13.534	6	0.928	0.604	+	0.1667		
62762C/50983	1	6	55.000	27.417	5	18.000	18.000	+	0.2287	6	9.475	5.631	5	1.810	1.810	+	0.0528		
Habitat Means			42.778	23.717		17.111	11.485	+			10.287	7.026		4.519	2.896	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0974	Power	---		Power-50%	---		P-value	0.0364		
Stouffer's	Power		---		Power-50%	0.197		P-value	0.0683	Power	---		Power-50%	---		P-value	0.0164		
14.1C/14.1	2	6	3.333	2.108	6	91.667	47.499	-	0.0003	6	0.272	0.180	6	4.877	1.512	-	0.0070		
14.2C/14.2	2	5	256.000	179.906	4	42.500	13.769	+	0.5063	5	16.254	6.500	4	9.568	5.209	-	0.8152		
62762C/50983	2	6	38.333	5.426	6	41.667	10.775	-	0.8730	6	8.498	3.179	6	10.278	4.222	-	0.9887		
Habitat Means			99.222	62.480		58.611	24.014	-			8.341	3.286		8.241	3.648	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0029 y	Power	---		Power-50%	---		P-value	0.0324 y		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.1617	Power	0.000		Power-50%	0.000		P-value	0.2371		
14.1C/14.1	3	6	151.667	80.059	6	10.000	6.325	+	0.0176	6	10.728	5.891	6	0.928	0.722	+	0.0273		
14.2C/14.2	3	2	5.000	5.000	5	42.000	27.459	-	0.6493	2	0.525	0.525	5	2.640	1.450	-	0.7288		
62762C/50983	3	6	16.667	7.601	4	17.500	11.087	-	0.9894	6	2.680	1.551	4	1.917	1.331	+	0.8711		
Habitat Means			57.778	30.887		23.167	14.957	-			4.644	2.656		1.828	1.168	+			
Fisher's	Power		0.051		Power-50%	0.229		P-value	0.7205xy	Power	---		Power-50%	---		P-value	0.0837		
Stouffer's	Power		0.023		Power-50%	0.310		P-value	0.7039	Power	0.034		Power-50%	0.269		P-value	0.2485		

Lottia pelta - abundance (#/m ²)										Lottia pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	1.667	1.667	6	8.333	5.426	-	0.4111	6	0.267	0.267	6	3.423	2.871	-	0.4597		
14.2C/14.2	1	6	43.333	33.928	6	0.000	0.000	+	0.0967	6	15.505	13.669	6	0.000	0.000	+	0.0818		
62762C/50983	1	6	5.000	3.416	5	0.000	0.000	+	0.1784	6	0.667	0.426	5	0.000	0.000	+	0.1747		
Habitat Means			16.667	13.004		2.778	1.809	+			5.480	4.787		1.141	0.957	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0781	Power	---		Power-50%	---		P-value	0.0668		
Stouffer's	Power		---		Power-50%	0.336		P-value	0.0706	Power	---		Power-50%	---		P-value	0.0633		
14.1C/14.1	2	6	0.000	0.000	6	8.333	4.773	-	0.0823	6	0.000	0.000	6	1.782	1.378	-	0.0792		
14.2C/14.2	2	5	46.000	13.266	4	5.000	2.887	+	0.1090	5	12.606	5.299	4	0.488	0.282	+	0.1793		
62762C/50983	2	6	8.333	4.014	6	33.333	9.888	-	0.0259	6	1.688	1.134	6	9.550	4.236	-	0.0280		
Habitat Means			18.111	5.760		15.555	5.849	-			4.765	2.144		3.940	1.965	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0189 y	Power	---		Power-50%	---		P-value	0.0189 y		
Stouffer's	Power		---		Power-50%	0.350		P-value	0.0189	Power	---		Power-50%	---		P-value	0.0166		
14.1C/14.1	3	6	15.000	8.466	6	0.000	0.000	+	0.0838	6	1.177	0.662	6	0.000	0.000	-	0.3600		
14.2C/14.2	3	2	5.000	5.000	5	14.000	4.000	-	0.3887	2	0.525	0.525	5	1.332	0.840	-	0.6626		
62762C/50983	3	6	3.333	3.333	4	12.500	9.465	-	0.3218	6	1.437	1.437	4	1.697	1.285	-	0.1434		
Habitat Means			7.778	5.600		8.833	4.488	-			1.046	0.875		1.010	0.708	-			
Fisher's	Power		0.001		Power-50%	0.395		P-value	0.3194x	Power	0.000		Power-50%	0.423		P-value	0.2473 y		
Stouffer's	Power		0.001		Power-50%	0.371		P-value	0.2549	Power	0.000		Power-50%	0.416		P-value	0.1446		

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 tests.
z Only one site pair.

Table D-78, Page 1, December 21, 1994

Table D-78, Page 2, December 21, 1994

Table D-78. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Tectura persona - abundance (#/m^2)										Tectura persona - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	16.667	6.146	6	1.667	1.667	-	0.0565	6	3.283	1.474	6	0.125	0.125	+	0.0610
14.2C/14.2	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.372	0.372	-	0.3632
62762C/50983	1	6	0.000	0.000	5	16.000	16.000	-	0.3739	6	0.000	0.000	5	1.704	1.704	-	0.3739
Habitat Means			5.556	2.049		6.445	6.445	-			1.094	0.491		0.734	0.734	-	
Fisher's		Power	0.986		Power-50%	0.004	P-value	0.3375x		Power	0.813		Power-50%	0.001	P-value	0.3371xy	
Stouffer's		Power	0.980		Power-50%	0.000	P-value	0.2985		Power	0.811		Power-50%	0.000	P-value	0.2952	
14.1C/14.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
14.2C/14.2	2	5	0.000	0.000	4	17.500	17.500	-	0.3910	5	0.000	0.000	4	3.463	3.463	-	0.3910
62762C/50983	2	6	0.000	0.000	6	6.667	6.667	-	0.3632	6	0.000	0.000	6	0.533	0.533	-	0.3632
Habitat Means			0.000	0.000		8.056	8.056	-			0.000	0.000		1.332	1.332	-	
Fisher's		Power	---		Power-50%	---	P-value	0.2336		Power	---		Power-50%	---	P-value	0.2336	
Stouffer's		Power	---		Power-50%	---	P-value	0.1408		Power	---		Power-50%	---	P-value	0.1406	
14.1C/14.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
14.2C/14.2	3	2	0.000	0.000	5	0.000	0.000	o	1.0000	2	0.000	0.000	5	0.000	0.000	o	1.0000
62762C/50983	3	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	

x Minimum or maximum values indicate habitat means in opposite than direction of overall tests.
 y Only one site pair.

Table D-78, Page 3, December 21, 1994

Site Pair	MVD	Tectura scutum - abundance (#/m^2)								Tectura scutum - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	0.000	0.000	6	5.000	3.416	-	0.1784	6	0.000	0.000	6	6.622	4.391	-	0.1749
14.2C/14.2	1	6	1.667	2.667	6	6.667	6.667	-	0.7721	6	0.343	0.343	6	0.557	0.557	-	0.9663
62762C/50983	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.556	0.556		3.889	3.361	-			0.114	0.114		2.393	1.649	-	
Fisher's	Power		0.915		Power-50%	---	P-value	0.2292		Power	0.679		Power-50%	---	P-value	0.2598	
Stouffer's	Power		0.058		Power-50%	---	P-value	0.3205		Power	0.021		Power-50%	---	P-value	0.3449	
14.1C/14.1	2	6	0.000	0.000	6	18.333	7.491	-	0.0290	6	0.000	0.000	6	2.002	0.770	-	0.0254
14.2C/14.2	2	5	2.000	2.000	4	15.000	15.000	-	0.6190	5	0.700	0.700	4	5.577	5.578	-	0.7706
62762C/50983	2	6	13.333	8.433	6	0.000	0.000	+	0.1747	6	2.140	1.476	6	0.000	0.000	+	0.1752
Habitat Means			5.111	3.478		11.111	7.497	-			0.947	0.725		2.526	2.116	-	
Fisher's	Power		---		Power-50%	---	P-value	0.0885		Power	---		Power-50%	---	P-value	0.0940	
Stouffer's	Power		0.000		Power-50%	0.717	P-value	0.6835		Power	0.000		Power-50%	0.448	P-value	0.6985	
14.1C/14.1	3	6	18.333	9.804	6	1.667	1.667	+	0.0718	6	7.232	6.339	6	0.085	0.085	+	0.1752
14.2C/14.2	3	2	0.000	0.000	5	8.000	8.000	-	0.5380	2	0.000	0.000	5	0.528	0.528	-	0.3739
62762C/50983	3	6	13.333	6.146	4	0.000	0.000	+	0.1900	6	1.243	0.780	4	0.000	0.000	+	0.0270
Habitat Means			10.555	5.317		3.222	3.222	+			2.825	2.373		0.204	0.204	+	
Fisher's	Power		---		Power-50%	---	P-value	0.0622		Power	---		Power-50%	---	P-value	0.0308	
Stouffer's	Power		---		Power-50%	0.060	P-value	0.0621		Power	---		Power-50%	---	P-value	0.0155	

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

Table D-78, Page 4, December 21, 1994

Table D-78. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Balanomorphs - abundance (#/m ²)										Balanomorphs - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	1628.333	738.410	6	6653.333	3938.380	-	0.3226	6	136.152	72.909	6	352.305	178.914	-	0.3129		
14.2C/14.2	1	6	5156.667	3520.399	6	1488.333	1391.724	-	0.4685	6	156.717	69.027	6	51.960	46.528	-	0.0865		
62762C/50983	1	6	26810.000	6405.140	5	5386.000	1170.695	-	0.0003	6	631.661	468.201	5	564.506	191.018	-	0.1662		
Habitat Means			11198.333	3554.650		4509.222	2167.000	+			641.510	203.379		322.924	138.820				
Fisher's		Power	---		Power-50%	---		P-value	0.0019	Power	---		Power-50%	---		P-value	0.0716		
Stouffer's		Power	---		Power-50%	0.000		P-value	0.0006	Power	---		Power-50%	---		P-value	0.0710		
14.1C/14.1	2	6	4395.000	1694.069	6	3143.333	1463.828	+	0.2369	6	303.693	119.401	6	173.005	105.932	+	0.2236		
14.2C/14.2	2	5	5556.000	4444.293	4	17627.500	16947.297	-	0.3529	5	97.490	61.448	4	333.177	294.425	-	0.2546		
62762C/50983	2	6	7656.667	3285.934	6	11676.667	2900.665	-	0.8610	6	2539.040	1443.516	6	1142.478	300.131	-	0.8887		
Habitat Means			5869.222	3141.432		10815.833	7103.930	-			980.074	541.455		549.553	233.496	-			
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.4927	Power	0.000		Power-50%	0.000		P-value	0.3929		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.4652	Power	0.000		Power-50%	0.000		P-value	0.4404		
14.1C/14.1	3	6	8525.000	4981.830	6	105.000	51.688	+	0.1388	6	1523.057	1123.244	6	1.508	1.203	+	0.0001		
14.2C/14.2	3	2	1130.000	750.000	5	1426.000	1341.289	-	0.9707	2	44.775	18.285	5	49.320	45.969	-	0.2454		
62762C/50983	3	6	7231.667	4653.631	4	7810.000	7354.254	-	0.9258	6	4938.066	2174.897	4	215.902	130.927	-	0.0166		
Habitat Means			5628.889	3461.820		3113.667	2915.744	-			2168.633	1105.475		88.910	59.366	-			
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.7923 y	Power	---		Power-50%	---		P-value	0.0000		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.6281	Power	---		Power-50%	---		P-value	0.0015		

x At least one site pair P-value is different than direction of overall tests.

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

z Only one site pair.

Table D-78, Page 5, December 21, 1994

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	355.000	198.288	6	1010.000	657.460	-	0.2624	6	3.655	2.161	6	10.215	6.998	-	0.2325		
14.2C/14.2	1	6	3385.000	2850.970	6	701.667	670.102	+	0.0201	6	32.858	27.420	6	8.315	7.752	-	0.0226		
62762C/50983	1	6	660.000	397.383	5	244.000	106.705	+	0.6472	6	3.555	2.012	5	2.136	0.947	+	0.7925		
Habitat Means			1466.667	1148.880		651.889	478.089	+			13.356	10.531		6.889	5.232				
Fisher's		Power	---		Power-50%	---		P-value	0.0681	Power	---		Power-50%	---		P-value	0.0864		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.2231	Power	0.000		Power-50%	0.004		P-value	0.2911		
14.1C/14.1	2	6	1568.333	1075.600	6	988.333	584.667	-	0.8931	6	15.457	9.918	6	13.385	8.791	-	0.9511		
14.2C/14.2	2	5	4554.000	3977.075	4	14967.500	14560.387	-	0.3490	5	39.482	34.541	4	130.832	125.341	-	0.2507		
62762C/50983	2	6	785.000	633.207	6	1981.667	975.320	-	0.5158	6	3.322	2.550	6	16.683	7.651	-	0.4597		
Habitat Means			2302.444	1895.294		5979.167	5373.458	-			19.420	15.670		53.633	47.261	-			
Fisher's		Power	0.022		Power-50%	0.001		P-value	0.2867	Power	0.023		Power-50%	0.001		P-value	0.2112		
Stouffer's		Power	0.030		Power-50%	0.001		P-value	0.2052	Power	0.035		Power-50%	0.004		P-value	0.1619		
14.1C/14.1	3	6	5548.333	3832.281	6	55.000	27.295	+	0.0915	6	71.652	51.170	6	0.327	0.198	+	0.1885		
14.2C/14.2	3	2	820.000	810.000	5	368.000	325.951	+	0.6326	2	6.935	6.805	5	4.428	4.016	+	0.5102		
62762C/50983	3	6	3.333	3.333	4	3045.000	2757.869	-	0.0055	6	0.008	0.008	4	18.110	15.866	-	0.0002		
Habitat Means			2123.889	1548.538		1156.000	1037.038	-			26.198	19.328		7.622	6.693	-			
Fisher's		Power	0.036		Power-50%	0.005		P-value	0.2052x	Power	0.018		Power-50%	0.006		P-value	0.2807x		
Stouffer's		Power	0.142		Power-50%	0.002		P-value	0.9728	Power	0.091		Power-50%	0.025		P-value	0.9977		

x At least one site pair P-value is different than direction of overall tests.

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

z Only one site pair.

Table D-78, Page 6, December 21, 1994

x At least one site pair p-value is greater than significance level.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-78, Page 5. December 21, 1994

Table D-78, Page 6. December 21, 1994

Table D-78. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, June 1990. (Continued.)

it	P	i	MVD	Balanus glandula - abundance (#/m ²)						D	P	Balanus glandula - biomass (g/m ²)						D	P
				N	C	SE	N	O	SE			N	C	SE	N	O	SE		
14.1C/14.1	1	6		1113.333	553.243		6	443.333	187.522	+	0.4528	6	126.602	68.375	6	44.995	20.628	-	0.5923
14.2C/14.2	1	6		1031.667	641.713		6	70.000	36.697	+	0.0459	6	67.017	38.605	6	4.907	2.024	-	0.0752
62762C/50983	1	6		5650.000	2794.799		5	2746.000	1055.465	+	0.7575	6	955.965	504.385	5	421.908	205.482	+	0.5997
Habitat Means				2598.333	1329.918			1086.444	426.561	+			383.195	203.788		157.270	76.045	+	
Fisher's				Power	---			Power-50%	---		P-value		Power	---		Power-50%	---		P-value
Stouffer's				Power	0.000			Power-50%	0.000		P-value		Power	0.000		Power-50%	0.000		P-value
14.1C/14.1	2	6		285.000	208.323		6	146.667	131.140	+	0.4014	6	9.932	6.054	6	12.532	12.026	-	0.4447
14.2C/14.2	2	5		344.000	146.103		4	100.000	78.422	+	0.2709	5	19.856	10.167	4	7.890	5.245	-	0.3639
62762C/50983	2	6		81.667	40.118		6	8018.333	2103.982	-	0.0162	6	4.400	2.119	6	997.472	300.450	-	0.0445
Habitat Means				236.889	131.515			2755.000	771.181	+			11.396	6.113		339.298	105.907	-	
Fisher's				Power	0.000			Power-50%	0.017		P-value		Power	---		Power-50%	---		P-value
Stouffer's				Power	0.001			Power-50%	0.073		P-value		Power	---		Power-50%	---		P-value
14.1C/14.1	3	6		55.000	29.861		6	6.667	4.944	+	0.3025	6	2.532	1.362	6	0.420	0.408	+	0.3654
14.2C/14.2	3	2		0.000	0.000		5	32.000	32.000	-	0.3739	2	0.000	0.000	5	1.182	1.182	-	0.3739
62762C/50983	3	6		0.000	0.000		4	2190.000	2064.728	-	0.0916	6	0.000	0.000	4	130.490	88.454	-	0.0786
Habitat Means				18.333	9.954			742.889	700.557	-			0.844	0.454		44.031	30.015	-	
Fisher's				Power	0.083			Power-50%	0.037		P-value		Power	0.041		Power-50%	0.025		P-value
Stouffer's				Power	---			Power-50%	0.000		P-value		Power	---		Power-50%	---		P-value

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-78, Page 7, December

Semibalanus balanoides - abundance (#/m^2)										Semibalanus balanoides - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	106.667	71.725	6	646.667	640.675	-	0.4335	6	2.147	1.230	6	219.466	162.683	-	0.1662		
14.2C/14.2	1	6	16841.666	6452.591	5	1498.000	560.378	+	0.2211	6	2.932	2.053	6	0.247	0.162	+	0.0833		
62762C/50983	1	6	5682.222	2194.197		2333.222	1403.890	-		6	559.150	283.148	5	122.468	46.974	+	0.3615		
Habitat Means			5682.222	2194.197		2333.222	1403.890	-			188.076	95.477		134.068	69.940	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0844 y	Power	0.000		Power-50%	0.008		P-value	0.1267		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.6216	Power	0.000		Power-50%	0.000		P-value	0.1752		
14.1C/14.1	2	6	1821.667	909.588	6	553.333	408.295	+	0.1874	6	48.790	38.559	6	32.403	25.440	+	0.8932		
14.2C/14.2	2	5	34.000	17.776	4	1960.000	1887.286	-	0.4672	5	0.654	0.272	4	170.540	170.103	-	0.2369		
62762C/50983	2	6	4710.000	3224.792	6	1123.333	450.212	+	0.9854	6	177.925	150.535	6	119.232	55.515	+	0.6312		
Habitat Means			2188.556	1384.052		1212.222	915.264	+			75.790	63.122		107.392	83.686	+			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.3511	Power	0.000		Power-50%	0.000		P-value	0.6536 y		
Stouffer's	Power		0.000		Power-50%	0.018		P-value	0.4264	Power	0.000		Power-50%	0.001		P-value	0.4444		
14.1C/14.1	3	6	1330.000	1149.237	6	30.000	30.000	+	0.7000	6	18.387	14.874	6	0.743	0.743	+	0.6304		
14.2C/14.2	3	2	5.000	5.000	5	934.000	916.535	-	0.8491	2	0.355	0.355	5	40.726	40.419	-	0.4491		
62762C/50983	3	6	4875.000	4859.007	4	320.000	300.111	+	0.2337	6	40.850	40.816	4	9.432	9.101	+	0.4452		
Habitat Means			2070.000	2004.415		428.000	415.549	+			19.864	18.682		16.967	16.754	+			
Fisher's	Power		0.004		Power-50%	0.033		P-value	0.2772	Power	0.007		Power-50%	0.029		P-value	0.4434		
Stouffer's	Power		0.001		Power-50%	0.155		P-value	0.1260	Power	0.002		Power-50%	0.035		P-value	0.2677		

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-78, Page 8, December 21, 1994

Table D-78. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Lacuna spp. - abundance (#/m^2)										Lacuna spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
14.1C/14.1	2	6	0.000	0.000	6	15.000	8.062	-	0.0832	6	0.000	0.000	6	0.088	0.062	-	0.0823		
14.2C/14.2	2	5	96.000	96.000	4	0.000	0.000	+	0.3739	5	0.076	0.076	4	0.000	0.000	-	0.3739		
62762C/50983	2	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.022	0.022	-	0.3632		
Habitat Means			32.000	32.000		6.111	3.798	-			0.023	0.025		0.037	0.028	-			
Fisher's		Power	0.639		Power-50%	---	P-value	0.1171	y	Power	0.422		Power-50%	---	P-value	0.1162			
Stouffer's		Power	0.626		Power-50%	---	P-value	0.1417		Power	0.459		Power-50%	---	P-value	0.1414			
14.1C/14.1	3	6	131.667	84.436	6	2570.000	2029.234	-	0.0539	6	0.813	0.764	6	1.997	0.976	-	0.0848		
14.2C/14.2	3	2	1025.000	305.000	5	6012.000	4489.347	-	0.5105	2	2.010	0.700	5	5.480	3.295	-	0.5961		
62762C/50983	3	6	156.667	64.066	4	35.000	31.754	-	0.0859	6	1.217	0.664	4	0.165	0.165	+	0.0482		
Habitat Means			437.778	151.167		2872.333	2183.445	-			1.347	0.709		2.547	1.479	-			
Fisher's		Power	0.001		Power-50%	0.000	P-value	0.1227	x	Power	0.000		Power-50%	0.000	P-value	0.1837	x		
Stouffer's		Power	0.021		Power-50%	0.000	P-value	0.7980		Power	0.008		Power-50%	0.000	P-value	0.8772			

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

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

z Only one site pair.

Littorina spp. - abundance (#/m^2)										Littorina spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	1025.000	257.963	6	2050.000	975.626	-	0.6899	6	22.673	7.821	6	18.922	6.418	+	0.7885		
14.2C/14.2	1	6	623.333	305.436	6	481.667	342.183	+	0.1979	6	11.243	5.206	6	16.025	10.483	-	0.7325		
62762C/50983	1	6	2045.000	460.563	5	760.000	363.373	+	0.0707	6	31.287	4.674	5	43.944	21.050	-	0.3908		
Habitat Means			1231.111	341.321		1097.222	560.394	+			21.734	5.900		26.297	12.650	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0586		Power	0.000		Power-50%	0.000	P-value	0.3929			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0282		Power	0.000		Power-50%	0.000	P-value	0.2101			
14.1C/14.1	2	6	1610.000	405.890	6	501.667	249.325	-	0.0572	6	17.342	3.828	6	17.035	13.057	-	0.9819		
14.2C/14.2	2	5	1064.000	550.714	4	767.500	637.500	+	0.6511	5	14.112	9.587	4	4.492	3.674	-	0.5428		
62762C/50983	2	6	603.333	380.628	6	1491.667	322.526	-	0.1230	6	12.317	7.889	6	57.755	13.153	-	0.0022		
Habitat Means			1092.444	445.744		920.278	403.117	+			14.590	7.101		26.427	9.961	+			
Fisher's		Power	0.000		Power-50%	0.001	P-value	0.1483		Power	0.000		Power-50%	0.001	P-value	0.6722	xy		
Stouffer's		Power	0.000		Power-50%	0.001	P-value	0.7704		Power	0.000		Power-50%	0.000	P-value	0.9956			
14.1C/14.1	3	6	718.333	371.747	6	91.667	83.722	+	0.0343	6	9.073	5.794	6	1.162	1.114	-	0.0343		
14.2C/14.2	3	2	10.000	10.000	5	462.000	424.622	-	0.2507	2	0.035	0.035	5	22.938	22.475	-	0.1912		
62762C/50983	3	6	171.667	165.739	4	812.500	408.399	-	0.0160	6	2.542	2.524	4	15.645	8.168	-	0.0044		
Habitat Means			300.000	182.495		455.389	305.581	-			3.883	2.784		13.248	10.586	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0314	x	Power	---		Power-50%	---	P-value	0.0094	x		
Stouffer's		Power	---		Power-50%	0.121	P-value	0.0269		Power	---		Power-50%	---	P-value	0.0088			

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

Table D-78. Page 9. December 21, 1994

Table D-78. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, June 1990. (Continued.)

Littorina sitkana - abundance (#/m^2)										Littorina sitkana - biomass (g/m^2)									
14.1C/14.1	1	6	906.667	234.871	6	1296.667	556.244	-	0.4245	6	20.838	7.294	6	14.400	4.754	-	0.0332		
14.2C/14.2	1	6	546.667	279.018	6	148.333	115.770	+	0.4148	6	10.272	4.889	6	13.647	10.601	-	0.7998		
62762C/50983	1	6	1895.000	410.315	5	694.000	323.830	+	0.0242	6	29.323	4.662	5	42.524	20.142	-	0.3476		
Habitat Means			1116.111	308.068		713.000	325.281	+			20.144	5.602		23.550	11.846	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0526		Power	0.011		Power-50%	0.000	P-value	0.4127			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0193		Power	0.020		Power-50%	0.000	P-value	0.2131			
14.1C/14.1	2	6	1441.667	375.432	6	293.333	229.516	+	0.0157	6	15.873	3.611	6	15.417	12.866	+	0.9720		
14.2C/14.2	2	5	764.000	449.607	4	125.000	118.357	+	0.2274	5	12.446	9.464	4	1.562	1.358	+	0.4734		
62762C/50983	2	6	560.000	346.545	6	1103.333	285.046	-	0.2329	6	11.397	7.199	6	50.165	12.538	-	0.0056		
Habitat Means			921.889	390.528		507.222	210.973	+			13.239	6.758		22.381	8.921	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0266		Power	0.000		Power-50%	0.001	P-value	0.6320			
Stouffer's		Power	0.000		Power-50%	0.002	P-value	0.5232		Power	0.000		Power-50%	0.000	P-value	0.9899			
14.1C/14.1	3	6	580.000	308.242	6	83.333	81.350	+	0.1568	6	8.218	5.505	6	1.137	1.115	+	0.0217		
14.2C/14.2	3	2	0.000	0.000	5	432.000	422.036	-	0.3888	2	0.000	0.000	5	22.742	22.493	-	0.1672		
62762C/50983	3	6	131.667	129.677	4	485.000	263.011	-	0.3614	6	2.318	2.314	4	11.307	7.382	-	0.0000		
Habitat Means			237.222	145.973		333.444	255.466	-			3.512	2.606		11.729	10.330	-			
Fisher's		Power	0.010		Power-50%	0.000	P-value	0.3339		Power	---		Power-50%	---	P-value	0.0162			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.2492		Power	---		Power-50%	---	P-value	0.0180			

a. No power was calculated for this test.
 y. Direction of difference between habitat means is different than direction of overall tests.
 z. Only one site pair.

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Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	118.333	37.454	6	753.333	637.038	-	0.8763	6	1.835	0.699	6	4.442	2.571	-	0.2458
14.2C/14.2	1	6	76.667	42.322	6	323.333	319.340	-	0.4286	6	0.972	0.549	6	2.368	2.242	-	0.5306
62762C/50983	1	6	150.000	58.481	5	66.000	42.849	+	0.1757	6	1.963	0.948	5	1.420	1.037	-	0.8155
Habitat Means			115.000	46.086		380.889	333.076	-			1.590	0.732		2.743	1.950	-	
Fisher's		Power	0.151		Power-50%	0.000	P-value	0.5548		Power	0.166		Power-50%	0.000	P-value	0.2460	
Stouffer's		Power	0.220		Power-50%	0.000	P-value	0.8338		Power	0.235		Power-50%	0.000	P-value	0.3834	
14.1C/14.1	2	6	168.333	72.269	6	208.333	50.294	-	0.4799	6	1.468	0.683	6	1.618	0.510	-	0.5993
14.2C/14.2	2	5	300.000	223.249	4	642.500	519.717	-	0.6564	5	1.666	1.000	4	2.930	2.317	-	0.7064
62762C/50983	2	6	43.333	34.319	6	388.333	61.396	-	0.0068	6	0.920	0.750	6	7.590	1.749	-	0.0115
Habitat Means			170.555	109.946		413.055	210.469	-			1.351	0.811		4.046	1.525	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0115		Power	---		Power-50%	---	P-value	0.0218	
Stouffer's		Power	---		Power-50%	0.291	P-value	0.0025		Power	---		Power-50%	---	P-value	0.0051	
14.1C/14.1	3	6	138.333	66.102	6	8.333	4.014	+	0.0865	6	0.855	0.512	6	0.025	0.021	-	0.0649
14.2C/14.2	3	2	10.000	10.000	5	30.000	10.954	-	0.4925	2	0.035	0.035	5	0.196	0.082	-	0.3970
62762C/50983	3	6	40.000	36.148	4	327.500	182.409	-	0.0456	6	0.223	0.210	4	4.338	1.900	-	0.0274
Habitat Means			62.778	37.417		121.944	65.792	-			0.371	0.252		1.520	0.668	-	
Fisher's		Power	0.032		Power-50%	0.113	P-value	0.1068		Power	---		Power-50%	---	P-value	0.0647	
Stouffer's		Power	---		Power-50%	0.193	P-value	0.0622		Power	---		Power-50%	---	P-value	0.0415	

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

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Table D-78. Invertebrate Abundance and Biomass. Cook Inlet/Kanai. Sheltered Rocky. June 1990. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	15.000	9.220	6	255.000	147.665	-	0.1760	6	0.583	0.581	6	11.022	8.645	-	0.1080		
14.2C/14.2	1	6	2196.667	1401.441	6	15.000	9.574	+	0.2258	6	120.132	116.346	6	0.348	0.238	+	0.5513		
62762C/50983	1	6	17695.000	9225.612	5	1198.000	746.568	-	0.0360	6	935.862	549.108	5	590.226	359.455	+	0.1567		
Habitat Means			6635.556	3545.424		489.333	301.269	-			352.192	222.012		200.532	122.779	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0502		Power	0.000		Power-50%	0.002	P-value	0.2546			
Stouffer's	Power		---		Power-50%	0.003	P-value	0.0301		Power	0.000		Power-50%	0.000	P-value	0.1569			
14.1C/14.1	2	6	4446.667	1178.011	6	2221.667	870.787	+	0.2453	6	88.280	63.495	6	51.817	29.201	+	0.6855		
14.2C/14.2	2	5	3756.000	1920.512	4	5005.000	3734.455	-	0.2859	5	32.754	17.976	4	38.393	33.341	-	0.2978		
62762C/50983	2	6	10766.667	4528.984	6	5716.667	2569.646	+	0.6434	6	306.818	214.134	6	1553.995	550.037	-	0.0810		
Habitat Means			6323.111	2542.502		4314.445	2391.629	+			142.617	99.202		548.068	204.193	-			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.3423		Power	---		Power-50%	---	P-value	0.0865			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.3263		Power	---		Power-50%	---	P-value	0.0377			
14.1C/14.1	3	6	7095.000	2307.000	6	208.333	158.649	+	0.0001	6	61.587	23.692	6	12.118	11.929	+	0.0052		
14.2C/14.2	3	2	14440.000	13900.000	5	2132.000	863.767	-	0.4666	2	108.035	106.165	5	11.856	3.976	+	0.6454		
62762C/50983	3	6	6891.667	3357.937	4	3885.000	3176.719	-	0.1298	6	168.418	140.317	4	2359.705	2345.752	-	0.7287		
Habitat Means			9475.556	6521.646		2075.111	1399.712	+			112.680	90.058		794.560	787.219	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0197 y			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0034		Power	0.000		Power-50%	0.000	P-value	0.2706			

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.002	0.002	-	0.3632		
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	20.000	20.000	5	0.000	0.000	-	0.3632	6	0.032	0.032	5	0.000	0.000	+	0.3632		
Habitat Means			6.667	6.667		1.111	1.111	-			0.011	0.011		0.001	0.001	-			
Fisher's	Power		---		Power-50%	---	P-value	0.5186 y		Power	---		Power-50%	---	P-value	0.5186 y			
Stouffer's	Power		---		Power-50%	---	P-value	0.7165		Power	---		Power-50%	---	P-value	0.7165			
14.1C/14.1	2	6	601.667	310.026	6	60.000	26.957	+	0.0438	6	0.647	0.319	6	0.028	0.016	+	0.0101		
14.2C/14.2	2	5	28.000	28.000	4	0.000	0.000	+	0.4984	5	0.022	0.022	4	0.000	0.000	+	0.3739		
62762C/50983	2	6	576.667	375.239	6	3.333	2.108	+	0.0309	6	0.512	0.309	6	0.003	0.003	+	0.0560		
Habitat Means			402.111	237.755		21.111	9.688	-			0.394	0.217		0.010	0.006	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0046		Power	---		Power-50%	---	P-value	0.0018			
Stouffer's	Power		---		Power-50%	0.131	P-value	0.0030		Power	---		Power-50%	---	P-value	0.0031			
14.1C/14.1	3	6	675.000	328.042	6	13.333	11.450	+	0.0141	6	0.672	0.293	6	0.008	0.008	+	0.0104		
14.2C/14.2	3	2	13415.000	13415.001	5	34.000	31.559	+	0.1223	2	20.020	20.020	5	0.048	0.048	+	0.0919		
62762C/50983	3	6	71.667	42.694	4	35.000	13.229	+	0.9069	6	0.120	0.075	4	0.030	0.012	+	0.9548		
Habitat Means			4720.556	4595.246		27.444	18.746	+			6.937	6.796		0.029	0.023	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0090		Power	---		Power-50%	---	P-value	0.0059			
Stouffer's	Power		0.129		Power-50%	0.304	P-value	0.1060		Power	0.075		Power-50%	0.132	P-value	0.1032			

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

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Table D-78. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, June 1990. (Continued.)

Pagurus spp. - abundance (#/m^2)										Pagurus spp. - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	0.000	0.000	6	6.667	6.667	-	0.3632	6	0.000	0.000	6	2.240	2.240	-	0.3632
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62762C/50983	1	6	1.667	1.667	5	0.000	0.000	+	0.3632	6	0.001	0.001	5	0.000	0.000	-	0.3632
Habitat Means			0.556	0.556		2.222	2.222	-			0.000	0.000		0.747	0.747	-	
Fisher's		Power	---		Power-50%	---	P-value	0.5186		Power	---		Power-50%	---	P-value	0.5186	
Stouffer's		Power	---		Power-50%	---	P-value	0.7165		Power	---		Power-50%	---	P-value	0.7165	
14.1C/14.1	2	6	1.667	1.667	6	23.333	17.448	-	0.0801	6	0.253	0.253	6	1.045	0.806	-	0.3194
14.2C/14.2	2	5	4.000	4.000	4	2.500	2.500	+	0.9145	5	0.214	0.214	4	0.440	0.440	-	0.8051
62762C/50983	2	6	10.000	6.831	6	8.333	4.014	+	0.8898	6	1.112	0.900	6	0.192	0.117	+	0.2488
Habitat Means			5.222	4.166		11.389	7.987	+			0.526	0.456		0.559	0.454	-	
Fisher's		Power	0.366		Power-50%	0.762	P-value	0.7747xy		Power	0.001		Power-50%	0.310	P-value	0.4512	
Stouffer's		Power	0.372		Power-50%	0.724	P-value	0.6339		Power	0.000		Power-50%	0.324	P-value	0.7584	
14.1C/14.1	3	6	1.667	1.667	6	11.667	7.923	-	0.2298	6	0.075	0.075	6	1.627	1.251	-	0.3367
14.2C/14.2	3	2	10.000	10.000	5	36.000	17.493	-	0.3015	2	1.660	1.660	5	2.282	1.039	-	0.7885
62762C/50983	3	6	16.667	4.216	4	105.000	78.581	-	0.1713	6	4.058	1.643	4	3.543	1.203	+	0.7731
Habitat Means			9.445	5.294		50.889	34.666	-			1.931	1.126		2.484	1.164	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0426		Power	0.003		Power-50%	0.169	P-value	0.3797	
Stouffer's		Power	---		Power-50%	0.365	P-value	0.0294		Power	0.000		Power-50%	0.119	P-value	0.4654	

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

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Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)							
site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	2.763	2.763	-	0.3632
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62762C/50983	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.921	0.921	-	
Fisher's																	
Stouffer's																	
		Power	---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028	
		Power	---		Power-50%	---	P-value	0.3977		Power	---		Power-50%	---	P-value	0.3977	
14.1C/14.1	2	6	6.667	3.333	6	1.667	1.667	+	0.2330	6	11.133	7.135	6	1.485	1.485	+	0.2358
14.2C/14.2	2	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000
62762C/50983	2	6	31.667	24.141	6	6.667	6.667	+	0.2940	6	68.485	42.888	6	5.890	5.890	+	0.2248
Habitat Means			12.778	9.158		2.778	2.778	+			26.539	16.674		2.458	2.458	+	
Fisher's																	
Stouffer's																	
		Power	0.001		Power-50%	0.128	P-value	0.1463		Power	0.024		Power-50%	0.161	P-value	0.1232	
		Power	---		Power-50%	0.038	P-value	0.0967		Power	---		Power-50%	---	P-value	0.0737	
14.1C/14.1	3	6	1.667	1.667	6	0.000	0.000	+	0.8637	6	3.837	3.837	6	0.000	0.000	+	0.9022
14.2C/14.2	3	2	0.000	0.000	5	0.000	0.000	o	1.0000	2	0.000	0.000	5	0.000	0.000	o	1.0000
62762C/50983	3	6	30.000	14.376	4	2.500	2.500	-	0.0174	6	87.045	45.895	4	13.340	13.340	+	0.0436
Habitat Means			10.556	5.348		0.833	0.833	+			30.294	16.577		4.447	4.447	-	
Fisher's																	
Stouffer's																	
		Power	---		Power-50%	---	P-value	0.0507		Power	0.100		Power-50%	0.096	P-value	0.1005	
		Power	---		Power-50%	0.004	P-value	0.0130		Power	---		Power-50%	---	P-value	0.0299	

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

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Table D-78. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Nucella lima - abundance (#/m^2)								Nucella lima - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	2.763	2.763	-	0.3632
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62762C/50983	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.921	0.921	-	
Fisher's	Power		---		Power-50%	---		P-value	0.4028	Power	---		Power-50%	---		P-value	0.4028
Stouffer's	Power		---		Power-50%	---		P-value	0.3977	Power	---		Power-50%	---		P-value	0.3977
14.1C/14.1	2	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	2.155	2.155	6	1.485	1.485	-	0.9779
14.2C/14.2	2	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000
62762C/50983	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.556	0.556		0.556	0.556	o			0.718	0.718		0.495	0.495	-	
Fisher's	Power		---		Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6491
Stouffer's	Power		---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.4969
14.1C/14.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
14.2C/14.2	3	2	0.000	0.000	5	0.000	0.000	o	1.0000	2	0.000	0.000	5	0.000	0.000	o	1.0000
62762C/50983	3	6	6.667	4.216	4	0.000	0.000	+	0.1747	6	11.528	7.452	4	0.000	0.000	+	0.1748
Habitat Means			2.222	1.405		0.000	0.000	+			3.843	2.484		0.000	0.000	+	
Fisher's	Power		0.255		Power-50%	0.082		P-value	0.2650	Power	0.337		Power-50%	0.123		P-value	0.2651
Stouffer's	Power		0.590		Power-50%	0.186		P-value	0.1071	Power	0.678		Power-50%	0.292		P-value	0.1071

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

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Site Pair	MVD	Nucella lamellosa - abundance (#/m^2)								Nucella lamellosa - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62762C/50983	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's	Power		---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
14.1C/14.1	2	6	5.000	3.416	6	0.000	0.000	+	0.1784	6	8.978	7.349	6	0.000	0.000	+	0.1765
14.2C/14.2	2	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000
62762C/50983	2	6	31.667	24.141	6	6.667	6.667	+	0.2940	6	68.485	42.888	6	5.890	5.890	+	0.2248
Habitat Means			12.222	9.186		2.222	2.222	+			25.821	16.746		1.963	1.963	+	
Fisher's	Power		0.044		Power-50%	0.152		P-value	0.1224	Power	0.176		Power-50%	0.156		P-value	0.1011
Stouffer's	Power		---		Power-50%	0.051		P-value	0.0895	Power	---		Power-50%	---		P-value	0.0673
14.1C/14.1	3	6	1.667	1.667	6	0.000	0.000	+	0.8759	6	3.837	3.837	6	0.000	0.000	+	0.9081
14.2C/14.2	3	2	0.000	0.000	5	0.000	0.000	o	1.0000	2	0.000	0.000	5	0.000	0.000	o	1.0000
62762C/50983	3	6	23.333	15.846	4	2.500	2.500	+	0.0909	6	75.517	48.980	4	13.340	13.340	+	0.1042
Habitat Means			8.333	5.838		0.833	0.833	+			26.451	17.606		4.447	4.447	+	
Fisher's	Power		0.334		Power-50%	0.168		P-value	0.1616	Power	0.314		Power-50%	0.190		P-value	0.1808
Stouffer's	Power		---		Power-50%	0.035		P-value	0.0557	Power	---		Power-50%	---		P-value	0.0643

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

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Table D-78. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, June 1990. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	6.667	4.944	6	5.000	5.000	-	0.7632	6	0.053	0.053	6	0.025	0.025	+	0.8935
14.2C/14.2	1	6	0.000	0.000	6	320.000	320.000	-	0.3456	6	0.000	0.000	6	0.222	0.222	-	0.4090
62762C/50983	1	6	166.667	153.094	5	210.000	207.509	-	0.9889	6	0.187	0.187	5	0.454	0.454	-	0.7974
Habitat Means			57.778	52.679		178.333	177.503	-			0.080	0.080		0.234	0.234	-	
Fisher's		Power	0.115		Power-50%	0.074	P-value	0.4366		Power	0.068		Power-50%	0.000	P-value	0.4014	
Stouffer's		Power	0.057		Power-50%	0.025	P-value	0.4224		Power	0.082		Power-50%	0.011	P-value	0.3329	
14.1C/14.1	2	6	21.667	6.009	6	385.000	208.930	-	0.1221	6	0.302	0.094	6	1.950	1.198	-	0.0387
14.2C/14.2	2	5	12.000	5.831	4	15.000	9.574	-	0.9497	5	0.154	0.137	4	0.360	0.334	-	0.8170
62762C/50983	2	6	106.667	49.509	6	98.333	81.339	+	0.1035	6	0.297	0.069	6	0.320	0.217	-	0.9758
Habitat Means			46.778	20.450		166.111	99.948	-			0.251	0.100		0.877	0.583	-	
Fisher's		Power	0.205		Power-50%	0.023	P-value	0.3038		Power	---		Power-50%	---	P-value	0.0849	
Stouffer's		Power	0.356		Power-50%	0.014	P-value	0.8488		Power	0.164		Power-50%	0.000	P-value	0.2472	
14.1C/14.1	3	6	291.667	126.792	6	1008.333	218.776	-	0.0900	6	2.575	0.792	6	5.783	1.824	-	0.0980
14.2C/14.2	3	2	530.000	60.000	5	436.000	335.523	-	0.2614	2	3.920	0.480	5	2.540	1.153	-	0.6136
62762C/50983	3	6	1140.000	522.705	4	115.000	40.311	+	0.0523	6	2.555	1.661	4	1.618	0.930	-	0.6565
Habitat Means			653.889	236.499		519.778	198.203	+			3.017	0.978		3.314	1.302	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0754x		Power	0.000		Power-50%	0.000	P-value	0.5839y	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0534		Power	0.000		Power-50%	0.000	P-value	0.4687	

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

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Site Pair	MVD	Isopoda - abundance (#/m²)							Isopoda - biomass (g/m²)								
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	0.000	0.000	6	23.333	15.846	-	0.0847	6	0.000	0.000	6	0.007	0.007	-	0.2625
14.2C/14.2	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.002	0.002	-	0.3632
62762C/50983	1	6	13.333	7.149	5	0.000	0.000	+	0.0823	6	0.001	0.001	5	0.000	0.000	+	0.0911
Habitat Means			4.444	2.383		8.333	5.838	-			0.000	0.000		0.003	0.003	-	
Fisher's		Power	0.614		Power-50%	0.013	P-value	0.1325x		Power	0.104		Power-50%	0.044	P-value	0.2716x	
Stouffer's		Power	0.000		Power-50%	0.015	P-value	0.7993		Power	0.000		Power-50%	0.197	P-value	0.8334	
14.1C/14.1	2	6	20.000	7.303	6	136.667	87.050	-	0.4091	6	0.058	0.034	6	0.468	0.330	-	0.4836
14.2C/14.2	2	5	48.000	24.779	4	97.500	87.785	-	0.7005	5	1.298	0.643	4	0.540	0.533	-	0.2685
62762C/50983	2	6	225.000	142.285	6	55.000	39.812	+	0.2611	6	0.609	0.379	6	0.538	0.507	+	0.9041
Habitat Means			97.667	58.122		96.389	71.549	-			0.655	0.352		0.515	0.457	+	
Fisher's		Power	0.169		Power-50%	0.076	P-value	0.4752 y		Power	0.000		Power-50%	0.030	P-value	0.4058	
Stouffer's		Power	0.246		Power-50%	0.205	P-value	0.7528		Power	0.000		Power-50%	0.100	P-value	0.4106	
14.1C/14.1	3	6	703.333	477.568	6	356.667	183.461	+	0.4091	6	1.405	1.092	6	1.817	1.251	-	0.7981
14.2C/14.2	3	2	645.000	435.000	5	204.000	89.084	+	0.4679	2	1.835	0.395	5	1.750	0.395	+	0.9708
62762C/50983	3	6	1480.000	333.547	4	35.000	12.583	+	0.0046	6	6.860	1.705	4	0.513	0.319	-	0.0016
Habitat Means			942.778	415.372		198.556	95.043	+			3.367	1.064		1.360	0.655	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0057		Power	---		Power-50%	---	P-value	0.0103	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0012		Power	---		Power-50%	---	P-value	0.0024	

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

Table D-78, Page 20, December 21, 1994

Table D-78. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Sheltered Rocky. June 1990. (Continued.)

Errant polychaetes - abundance (#/m ²)										Errant polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	1.667	1.667	6	30.000	24.221	-	0.1852	6	0.017	0.017	6	0.067	0.053	-	0.3117		
14.2C/14.2	1	6	66.667	59.029	6	0.000	0.000	+	0.1881	6	0.375	0.369	6	0.000	0.000	-	0.2118		
62762C/50983	1	6	16.667	6.667	5	22.000	11.576	-	0.9676	6	0.073	0.037	5	0.356	0.349	-	0.6859		
Habitat Means			28.334	22.454		17.333	11.932	-			0.155	0.141		0.141	0.134	-			
Fisher's		Power	0.008		Power-50%	0.411	P-value	0.3790	y	Power	0.000		Power-50%	0.143	P-value	0.4141	y		
Stouffer's		Power	0.009		Power-50%	0.484	P-value	0.4842		Power	0.000		Power-50%	0.156	P-value	0.3813			
14.1C/14.1	2	6	21.667	10.775	6	41.667	19.221	-	0.6843	6	0.078	0.048	6	0.065	0.028	+	0.8005		
14.2C/14.2	2	5	32.000	5.831	4	177.500	106.956	-	0.8013	5	0.060	0.046	4	1.337	0.810	-	0.3962		
62762C/50983	2	6	471.667	394.583	6	145.000	61.196	+	0.8791	6	0.498	0.354	6	0.468	0.313	+	0.2248		
Habitat Means			175.111	137.063		121.389	62.458	-			0.212	0.149		0.623	0.384	-			
Fisher's		Power	0.089		Power-50%	0.061	P-value	0.5270	y	Power	0.001		Power-50%	0.003	P-value	0.3550	y		
Stouffer's		Power	0.074		Power-50%	0.012	P-value	0.4806		Power	0.004		Power-50%	0.046	P-value	0.1734			
14.1C/14.1	3	6	198.333	159.215	6	356.667	212.519	-	0.4489	6	0.245	0.105	6	0.932	0.503	-	0.2621		
14.2C/14.2	3	2	1675.000	1655.000	5	178.000	132.340	+	0.2424	2	7.105	7.104	5	0.752	0.487	-	0.8786		
62762C/50983	3	6	606.667	247.395	4	407.500	407.500	+	0.0134	6	0.590	0.212	4	0.227	0.228	-	0.0199		
Habitat Means			826.667	687.203		314.056	250.786	+			2.647	2.474		0.637	0.406	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0224		Power	---		Power-50%	---	P-value	0.0840			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0086		Power	---		Power-50%	---	P-value	0.0318			

Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	0.000	0.000	6	8.333	8.333	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
14.2C/14.2	1	6	15.000	15.000	6	0.000	0.000	+	0.3632	6	0.013	0.013	6	0.000	0.000	-	0.3632		
62762C/50983	1	6	1.667	1.667	5	6.000	4.000	-	0.3837	6	0.000	0.000	5	0.001	0.001	-	0.4385		
Habitat Means			5.556	5.556		4.778	4.111	-			0.004	0.004		0.001	0.001	-			
Fisher's		Power	0.411		Power-50%	---	P-value	0.3104	y	Power	0.346		Power-50%	---	P-value	0.3352	y		
Stouffer's		Power	0.035		Power-50%	---	P-value	0.2127		Power	0.059		Power-50%	---	P-value	0.2393			
14.1C/14.1	2	6	23.333	17.638	6	68.333	38.420	-	0.6250	6	0.000	0.000	6	0.029	0.016	-	0.1084		
14.2C/14.2	2	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
62762C/50983	2	6	29338.334	27175.043	6	46.667	36.025	-	0.0619	6	4.147	3.704	6	0.005	0.005	+	0.1434		
Habitat Means			9787.222	9064.227		38.333	24.815	+			1.382	1.235		0.011	0.007	-			
Fisher's		Power	0.000		Power-50%	0.002	P-value	0.1688		Power	0.023		Power-50%	0.001	P-value	0.2884	y		
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0583		Power	0.046		Power-50%	0.004	P-value	0.9109			
14.1C/14.1	3	6	625.000	476.366	6	15.000	8.466	+	0.0572	6	0.100	0.068	6	0.572	0.564	-	0.5975		
14.2C/14.2	3	2	10.000	10.000	5	26.000	26.000	-	0.8018	2	0.025	0.025	5	0.074	0.074	-	0.7374		
62762C/50983	3	6	14475.000	13655.883	4	30.000	19.149	+	0.0165	6	1.587	0.857	4	0.001	0.000	-	0.0152		
Habitat Means			5036.667	4714.083		23.667	17.872	+			0.571	0.317		0.216	0.213	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0069		Power	0.058		Power-50%	0.033	P-value	0.6191	y		
Stouffer's		Power	---		Power-50%	0.123	P-value	0.0038		Power	0.179		Power-50%	0.022	P-value	0.9759			

n = no. sites with data; N = number of sites with data; C = number of sites with data; SE = standard error; D = direction of difference between habitat means; P = probability of overall trend.

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Table D-78. Invertebrate Abundance and Biomass. OOD Inlet/Kenai, Sheltered Rocky, June 1990. (Continued.)

Oligochaeta - abundance (#/m²)										Oligochaeta - biomass (g/m²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	0.010	0.000	6	25.000	19.279	-	0.0942	6	0.000	0.000	6	0.020	0.020	-	0.2827
14.2C/14.2	1	6	36.617	27.889	6	71.667	71.667	-	0.7279	6	0.007	0.007	6	0.090	0.090	-	0.7712
62762C/50983	1	6	733.313	461.524	5	674.000	390.277	-	0.8552	6	0.125	0.102	5	1.076	0.688	-	0.4103
Habitat Means			256.667	163.138		256.889	160.408	-			0.044	0.036		0.395	0.266	-	
Fisher's		Power	0.601		Power-50%	0.023	P-value	0.1601		Power	0.459		Power-50%	0.005	P-value	0.1743	
Stouffer's		Power	0.529		Power-50%	0.098	P-value	0.3409		Power	0.808		Power-50%	0.007	P-value	0.1266	
14.1C/14.1	2	6	818.333	497.322	6	2603.333	2434.114	-	0.7593	6	0.079	0.052	6	2.670	2.630	-	0.4219
14.2C/14.2	2	5	68.000	48.104	4	142.500	142.500	-	0.2336	5	0.014	0.014	4	0.050	0.050	-	0.9321
62762C/50983	2	6	2910.000	1769.363	6	203.333	137.469	-	0.0282	6	0.337	0.204	6	0.055	0.039	-	0.0731
Habitat Means			1265.444	771.596		983.055	904.694	-			0.143	0.090		0.925	0.906	-	
Fisher's		Power	4.132		Power-50%	0.000	P-value	0.3947		Power	0.049		Power-50%	0.000	P-value	0.5810	
Stouffer's		Power	0.120		Power-50%	0.000	P-value	0.9431		Power	0.277		Power-50%	0.000	P-value	0.9173	
14.1C/14.1	3	6	1083.333	462.404	6	71.667	58.219	-	0.5332	6	0.288	0.121	6	0.069	0.068	-	0.0193
14.2C/14.2	3	2	0.000	0.000	5	102.000	60.117	-	0.9653	2	0.000	0.000	5	0.186	0.110	-	0.1072
62762C/50983	3	6	3376.667	2378.935	4	82.500	75.980	-	0.0783	6	0.435	0.189	4	0.000	0.000	-	0.0049
Habitat Means			1486.667	917.113		85.389	64.772	-			0.241	0.103		0.085	0.059	-	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1072		Power	---		Power-50%	---	P-value	0.0015	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0378		Power	---		Power-50%	---	P-value	0.0027	

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.

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Total Invertebrates - abundance (#/m²)										Total Invertebrates - biomass (g/m²)									
site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	2843.333	1016.863	6	9235.000	4668.233	-	0.1082	6	165.181	81.070	6	410.039	177.118	-	0.2314		
14.2C/14.2	1	6	8250.000	3896.331	6	2416.667	1729.302	-	0.0942	6	306.431	164.367	6	69.740	48.891	-	0.1061		
62762C/50983	1	6	50265.000	13489.504	5	8502.000	900.630	-	0.0561	6	2610.759	626.084	5	1202.649	331.621	-	0.3711		
Habitat Means			20452.778	6134.233		6717.889	2432.722	-			1027.457	290.507		560.809	185.877	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0375	Power	0.000		Power-50%	0.000		P-value	0.1479		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0386	Power	0.000		Power-50%	0.000		P-value	0.1741		
14.1C/14.1	2	6	12810.000	3466.385	6	10228.333	4902.490	-	0.3590	6	470.449	134.761	6	319.986	139.947	-	0.4659		
14.2C/14.2	2	5	11114.000	6554.350	4	24067.500	17721.264	-	0.6867	5	173.391	67.717	4	400.780	302.847	-	0.8666		
62762C/50983	2	6	70451.664	31141.328	6	22340.000	2849.865	-	0.4699	6	3157.040	1456.622	6	2776.090	742.322	-	0.5988		
Habitat Means			31458.555	13720.688		18878.611	8491.206	-			1266.960	553.033		1165.619	395.105	-			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.3051	Power	0.000		Power-50%	0.000		P-value	0.3735		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.2096	Power	0.000		Power-50%	0.000		P-value	0.2607		
14.1C/14.1	3	6	21583.334	4806.611	6	10130.000	4564.333	-	0.1102	6	1769.082	1151.357	6	106.696	29.264	-	0.0091		
14.2C/14.2	3	2	43520.000	39420.000	5	13574.000	5950.649	-	0.4979	2	399.691	358.219	5	152.952	61.310	-	0.6942		
62762C/50983	3	6	43323.332	20088.186	4	13897.500	7515.694	-	0.0602	6	5465.973	2174.686	4	2615.475	2387.529	-	0.0226		
Habitat Means			36142.222	21438.266		12533.833	6010.225	-			2544.915	1228.087		958.374	826.101	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0162	Power	---		Power-50%	---		P-value	0.0013		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0089	Power	---		Power-50%	---		P-value	0.0016		

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 D-78. Page 24. December 21, 1994

Table D-79. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	101.667	37.808	6	60.000	29.552	-	0.2502	6	23.758	12.613	6	29.265	20.551	-	0.7095		
14.2C/14.2	1	6	75.000	33.640	6	8.333	4.014	+	0.0704	6	13.398	7.060	6	1.112	0.799	+	0.4081		
62762C/50983	1	6	30.000	14.142	6	16.667	11.738	+	0.7101	6	6.668	2.961	6	2.273	1.607	+	0.7661		
Habitat Means			68.889	28.530		28.333	15.101	+			14.608	7.545		10.883	7.652				
Fisher's			---				---		0.0443		0.023			Power-50%	0.103		P-value	0.4261	
Stouffer's			Power	0.003			Power-50%	0.442	P-value	0.1182	Power	0.013		Power-50%	0.195		P-value	0.3440	
14.1C/14.1	2	6	30.000	9.309	6	31.667	13.520	-	0.9685	6	4.273	1.181	6	9.982	5.746	-	0.4923		
14.2C/14.2	2	6	45.000	28.490	6	76.667	61.246	-	0.4552	6	6.892	5.674	6	11.353	10.310	-	0.5909		
62762C/50983	2	6	26.667	10.220	5	30.000	14.491	-	0.9400	6	8.825	3.625	5	6.568	3.738	-	0.7950		
Habitat Means			33.889	16.006		46.111	29.752	-			6.663	3.493		9.301	6.598	-			
Fisher's			Power	0.060			Power-50%	0.141	P-value	0.4321	Power	0.036		Power-50%	0.093		P-value	0.3952	
Stouffer's			Power	0.047			Power-50%	0.281	P-value	0.3848	Power	0.082		Power-50%	0.090		P-value	0.4556	
14.1C/14.1	3	6	26.667	12.561	6	11.667	6.540	+	0.2800	6	4.377	2.704	6	1.680	1.166	-	0.4235		
14.2C/14.2	3	3	10.000	5.774	6	35.000	11.180	-	0.1453	3	0.833	0.585	6	4.585	2.402	-	0.3641		
62762C/50983	3	6	13.333	6.146	5	36.000	12.884	-	0.1240	6	3.283	2.000	5	7.966	3.890	-	0.1898		
Habitat Means			16.667	8.160		27.556	10.201	-			2.831	1.763		4.744	2.486	-			
Fisher's			Power	---			Power-50%	---	P-value	0.0851	Power	0.009		Power-50%	0.197		P-value	0.1978	
Stouffer's			Power	---			Power-50%	0.416	P-value	0.0649	Power	0.018		Power-50%	0.295		P-value	0.1092	

x At least one site pair p-value < 0.001 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D 79, Page 1, December 21, 1994

Lottia pelta - abundance (#/m ²)										Lottia Pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	58.333	34.873	6	45.000	28.137	-	0.6654	6	18.242	12.906	6	24.163	20.826	-	0.7596		
14.2C/14.2	1	6	26.667	24.721	6	3.333	2.108	-	0.4506	6	6.463	6.162	6	0.212	0.147	+	0.7253		
62762C/50983	1	6	15.000	13.102	6	0.000	0.000	-	0.6267	6	3.192	2.891	6	0.000	0.000	+	0.1800		
Habitat Means			33.333	24.232		16.111	10.082	-			9.300	7.320		8.125	6.991	+			
Fisher's			Power	0.567			Power-50%	0.255	P-value	0.2769	Power	0.551		Power-50%	0.211		P-value	0.2531	
Stouffer's			Power	0.721			Power-50%	0.309	P-value	0.2168	Power	0.705		Power-50%	0.248		P-value	0.1075	
14.1C/14.1	2	6	23.333	10.853	6	3.333	2.108	-	0.4138	6	2.508	1.199	6	0.230	0.161	-	0.1954		
14.2C/14.2	2	6	13.333	9.888	6	50.000	36.878	-	0.1393	6	1.433	0.919	6	8.227	7.340	-	0.5180		
62762C/50983	2	6	3.333	3.333	5	12.000	12.000	-	0.7344	6	0.300	0.300	5	3.812	3.812	-	0.7714		
Habitat Means			13.333	8.025		21.778	16.995	-			1.414	0.806		4.090	3.771	-			
Fisher's			Power	0.225			Power-50%	0.550	P-value	0.2534	Power	0.248		Power-50%	0.551		P-value	0.5680	
Stouffer's			Power	0.324			Power-50%	0.574	P-value	0.3090	Power	0.196		Power-50%	0.532		P-value	0.4680	
14.1C/14.1	3	6	3.333	2.108	6	3.333	2.108	o	1.0000	6	0.222	0.160	6	0.365	0.235	-	0.9258		
14.2C/14.2	3	3	3.333	3.333	6	3.333	2.108	o	1.0000	3	0.350	0.350	6	0.315	0.220	-	0.9811		
62762C/50983	3	6	3.333	2.108	5	30.000	11.402	-	0.0005	6	0.853	0.776	5	5.572	2.217	-	0.0526		
Habitat Means			3.333	2.516		12.222	5.206	-			0.475	0.429		2.084	0.891	-			
Fisher's			Power	---			Power-50%	---	P-value	0.0036	Power	0.049		Power-50%	0.282		P-value	0.1178	
Stouffer's			Power	---			Power-50%	0.796	P-value	0.0007	Power	---		Power-50%	---		P-value	0.0364	

z Only one site pair.

Table D 79, Page 2, December 21, 1994

Table D-79. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Tectura persona - abundance (#/m ²)								Tectura persona - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	8.333	4.773	6	0.000	0.000	-	0.0823	6	0.837	0.688	6	0.000	0.000	+	0.0828
14.2C/14.2	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.100	0.100	6	0.525	0.525	-	0.8753
62762C/50983	1	6	8.333	6.540	6	16.667	11.738	-	0.8074	6	1.775	1.174	6	2.273	1.607	-	0.9810
Habitat Means			6.111	4.327		6.111	4.468	-			0.904	0.654		0.933	0.711	-	
Fisher's	Power		0.080		Power-50%	0.530	P-value	0.1851	y	Power	0.140		Power-50%	0.380	P-value	0.7883	x
Stouffer's	Power		0.018		Power-50%	0.617	P-value	0.3924		Power	0.025		Power-50%	0.381	P-value	0.6658	
14.1C/14.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
14.2C/14.2	2	6	0.000	0.000	6	15.000	15.000	-	0.3632	6	0.000	0.000	6	1.182	1.182	-	0.3632
62762C/50983	2	6	0.000	0.000	5	14.000	11.662	-	0.1970	6	0.000	0.000	5	2.230	2.017	-	0.1844
Habitat Means			0.000	0.000		9.667	8.887	-			0.000	0.000		1.137	1.066	-	
Fisher's	Power		0.483		Power-50%	---	P-value	0.1506		Power	0.257		Power-50%	---	P-value	0.1442	
Stouffer's	Power		---		Power-50%	---	P-value	0.0749		Power	---		Power-50%	---	P-value	0.0702	
14.1C/14.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
14.2C/14.2	3	3	0.000	0.000	6	1.667	1.667	-	0.3632	3	0.000	0.000	6	0.058	0.058	-	0.3632
62762C/50983	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.019	0.019	-	
Fisher's	Power		---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028	
Stouffer's	Power		---		Power-50%	---	P-value	0.3977		Power	---		Power-50%	---	P-value	0.3977	

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

Table D-79. Page 3. December 21, 1994

Site Pair	MVD	Tectura scutum - abundance (#/m ²)								Tectura scutum - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	3.333	3.333	6	15.000	5.627	-	0.0952	6	2.543	2.543	6	5.102	3.333	-	0.1296
14.2C/14.2	1	6	21.667	21.667	6	1.667	1.667	+	0.6582	6	4.908	4.908	6	0.063	0.063	+	0.7221
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			8.333	8.333		5.556	2.431	-			2.484	2.484		1.722	1.132	-	
Fisher's	Power		0.000		Power-50%	---	P-value	0.2187	y	Power	0.000		Power-50%	---	P-value	0.2566	y
Stouffer's	Power		0.000		Power-50%	---	P-value	0.3632		Power	0.000		Power-50%	---	P-value	0.3703	
14.1C/14.1	2	6	6.667	4.944	6	25.000	15.221	-	0.3949	6	1.765	1.193	6	9.600	5.863	-	0.5161
14.2C/14.2	2	6	25.000	25.000	6	5.000	3.416	+	0.9421	6	4.718	4.718	6	0.948	0.806	+	0.7361
62762C/50983	2	6	21.667	9.804	5	0.000	0.000	+	0.0374	6	8.348	3.670	5	0.000	0.000	+	0.0294
Habitat Means			17.778	13.249		10.000	6.212	+			4.944	3.194		3.516	2.223	+	
Fisher's	Power		0.647		Power-50%	0.553	P-value	0.1288		Power	---		Power-50%	---	P-value	0.0873	
Stouffer's	Power		---		Power-50%	0.669	P-value	0.0462		Power	---		Power-50%	---	P-value	0.0284	
14.1C/14.1	3	6	18.333	12.494	6	6.667	4.944	-	0.3022	6	3.935	2.690	6	1.263	0.989	-	0.3329
14.2C/14.2	3	3	6.667	3.333	6	18.333	10.462	-	0.3979	3	0.483	0.264	6	3.708	2.228	-	0.3397
62762C/50983	3	6	6.667	4.944	5	2.000	2.000	+	0.6913	6	2.232	1.872	5	1.882	1.882	+	0.9029
Habitat Means			10.556	6.924		9.000	5.802	+			2.217	1.609		2.284	1.700	+	
Fisher's	Power		0.005		Power-50%	0.370	P-value	0.3854		Power	0.000		Power-50%	0.194	P-value	0.4756	y
Stouffer's	Power		0.016		Power-50%	0.544	P-value	0.3387		Power	0.000		Power-50%	0.281	P-value	0.4541	

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

Table D-79. Page 4. December 21, 1994

Table D-79. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, August 1990. (Continued.)

Site Pair	MVD	Balanomorpha - abundance (#/m ²)								Balanomorpha - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	2401.667	1232.275	6	4998.333	3084.561	-	0.4794	6	240.582	134.774	6	232.430	157.994	+	0.9742
14.2C/14.2	1	6	4688.333	2879.511	6	2873.333	2025.041	+	0.6203	6	217.313	131.457	6	140.468	113.468	+	0.7601
62762C/50983	1	6	11645.000	3860.771	6	2768.333	1046.742	+	0.0204	6	852.503	324.407	6	216.363	89.407	+	0.0161
Habitat Means			6245.000	2657.519		3546.666	2052.115	+			436.799	196.879		196.420	120.290	+	
Fisher's	Power		---		Power-50%	---		P-value	0.0606	Power	---		Power-50%	---		P-value	0.0428
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0196	Power	---		Power-50%	---		P-value	0.0108
14.1C/14.1	2	6	6776.667	3342.735	6	5295.000	2337.311	+	0.9043	6	385.110	140.097	6	353.202	177.085	+	0.9699
14.2C/14.2	2	6	20945.000	12733.994	6	15113.333	9793.470	+	0.6368	6	307.153	181.063	6	713.577	552.832	-	0.6312
62762C/50983	2	6	8665.000	6488.702	5	19990.000	13209.214	-	0.3842	6	1838.163	810.714	5	1744.024	1217.707	+	0.9154
Habitat Means			12128.889	7521.810		13466.111	8446.665	+			843.475	377.291		936.934	649.208	+	
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.6357 y	Power	0.000		Power-50%	0.000		P-value	0.7079 y
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.7348	Power	0.000		Power-50%	0.000		P-value	0.5116
14.1C/14.1	3	6	4530.000	2756.674	6	100.000	84.735	+	0.2052	6	1678.350	1574.997	6	3.430	1.386	+	0.0002
14.2C/14.2	3	3	1196.667	1092.128	6	6511.667	3162.843	-	0.2143	3	15.870	8.094	6	105.477	42.653	-	0.8957
62762C/50983	3	6	5198.333	1996.704	5	6832.000	3546.122	-	0.6515	6	2913.570	1304.941	5	228.114	88.648	+	0.6783
Habitat Means			3641.667	1948.502		4481.222	2264.567	-			1535.930	962.677		112.340	44.896	-	
Fisher's	Power		0.001		Power-50%	0.000		P-value	0.3277	Power	---		Power-50%	---		P-value	0.0013
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.3425	Power	---		Power-50%	---		P-value	0.0804

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

Table D-79, Page 5, December 21, 1994

Site Pair	MVD	Chthamalus dalli - abundance (#/m^2)							Chthamalus dalli - biomass (g/m^2)								
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	495.000	473.151	6	706.667	304.966	-	0.2224	6	3.142	3.034	6	6.628	2.687	-	0.6596
14.2C/14.2	1	6	2206.667	1757.120	6	420.000	204.271	+	0.0979	6	15.310	12.179	6	4.058	2.448	-	0.1615
62762C/50983	1	6	615.000	290.961	6	135.000	90.471	+	0.0883	6	5.342	3.531	6	1.510	1.034	+	0.6285
Habitat Means			1105.556	840.411		420.556	199.903	-			7.931	6.248		4.065	2.056	+	
Fisher's	Power		---		Power-50%	---		P-value	0.0515	Power	0.000		Power-50%	0.000		P-value	0.2274
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0461	Power	0.000		Power-50%	0.000		P-value	0.2369
14.1C/14.1	2	6	1310.000	1143.524	6	121.667	71.480	-	0.8987	6	6.037	4.860	6	1.170	0.797	+	0.8486
14.2C/14.2	2	6	16185.000	11075.372	6	7673.333	5394.896	+	0.4009	6	142.260	106.089	6	47.520	32.371	+	0.3256
62762C/50983	2	6	61.667	52.308	5	4598.000	3398.849	-	0.0016	6	0.327	0.246	5	27.476	16.275	-	0.0011
Habitat Means			5852.222	4090.401		4131.000	2955.075	+			49.541	37.065		25.389	16.481	+	
Fisher's	Power		0.055		Power-50%	0.022		P-value	0.5676x	Power	0.049		Power-50%	0.022		P-value	0.5002x
Stouffer's	Power		0.181		Power-50%	0.045		P-value	0.9955	Power	0.055		Power-50%	0.091		P-value	0.9960
14.1C/14.1	3	6	320.000	100.929	6	75.000	71.075	+	0.0312	6	2.582	0.957	6	0.393	0.376	+	0.0469
14.2C/14.2	3	3	280.000	280.000	6	3871.667	2265.557	-	0.1346	3	2.897	2.897	6	25.555	15.517	-	0.1535
62762C/50983	3	6	28.333	17.013	5	4018.000	2135.676	-	0.0059	6	0.083	0.032	5	32.054	14.486	-	0.0050
Habitat Means			209.444	132.647		2654.889	1490.769	-			1.854	1.295		19.334	10.126	-	
Fisher's	Power		---		Power-50%	---		P-value	0.0090x	Power	---		Power-50%	---		P-value	0.0087x
Stouffer's	Power		---		Power-50%	0.178		P-value	0.0099	Power	---		Power-50%	---		P-value	0.0080

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

Table D-79, Page 6, December 21, 1994

Table D-79. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, August 1990. (Continued.)

Balanus glandula - abundance (#/m^2)										Balanus glandula - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	603.333	420.188	6	296.667	97.866	-	0.8520	6	131.018	121.068	6	25.525	10.515	-	0.6295		
14.2C/14.2	1	6	1736.667	998.992	6	1033.333	731.864	+	0.6691	6	186.960	117.941	6	97.498	77.045	-	0.6823		
62762C/50983	1	6	6321.667	2417.277	6	1566.667	634.101	-	0.0066	6	739.565	316.747	6	155.740	74.591	-	0.0113		
Habitat Means			2887.222	1278.819		965.556	487.944	+			352.514	185.252		92.921	54.050	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0179	Power	---		Power-50%	---		P-value	0.0217		
Stouffer's	Power		---		Power-50%	0.004		P-value	0.0039	Power	---		Power-50%	---		P-value	0.0050		
14.1C/14.1	2	6	215.000	141.132	6	68.333	40.940	+	0.2444	6	8.405	5.515	6	4.173	1.736	-	0.4737		
14.2C/14.2	2	6	1138.333	1003.545	6	855.000	708.603	+	0.9887	6	74.200	72.865	6	55.670	47.319	-	0.7914		
62762C/50983	2	6	805.000	757.314	5	9904.000	7597.748	-	0.0065	6	136.567	136.413	5	1493.142	1118.311	-	0.0019		
Habitat Means			719.444	633.997		3609.111	2782.430	-			73.057	71.598		517.662	389.122	-			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.4671 _{xy}	Power	0.000		Power-50%	0.000		P-value	0.5780 _{xy}		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.9844	Power	0.000		Power-50%	0.002		P-value	0.9948		
14.1C/14.1	3	6	16.667	14.757	6	0.000	0.000	+	0.1988	6	0.323	0.214	6	0.000	0.000	-	0.1751		
14.2C/14.2	3	3	23.333	12.019	6	610.000	382.788	-	0.6727	3	0.320	0.244	6	8.332	4.476	-	0.8093		
62762C/50983	3	6	51.667	30.157	5	1760.000	1047.363	-	0.0222	6	0.368	0.269	5	92.700	38.567	-	0.0083		
Habitat Means			30.556	18.978		790.000	476.717	-			0.337	0.242		33.677	14.348	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0770	Power	---		Power-50%	---		P-value	0.0436		
Stouffer's	Power		---		Power-50%	0.420		P-value	0.0324	Power	---		Power-50%	---		P-value	0.0180		

Y: DIRECTION OF DEPENDENCE DETERMINED BY SIGN OF DIFFERENTIAL CORRELATION OF OVERALL TESTS.
X: Only one site pair.

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Semibalanus balanoides - abundance (#/m^2)										Semibalanus balanoides - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	1175.000	541.010	6	3583.333	2717.811	-	0.2739	6	19.980	11.121	6	192.907	149.637	-	0.0837		
14.2C/14.2	1	6	178.333	102.970	6	1076.667	895.953	-	0.6806	6	4.553	3.064	6	36.267	32.446	-	0.7451		
62762C/50983	1	6	3533.333	2314.993	6	876.667	395.573	+	0.2285	6	91.755	61.969	6	55.715	24.544	-	0.7118		
Habitat Means			1628.889	986.324		1845.556	1336.446	-			38.763	25.385		94.963	68.876	-			
Fisher's	Power		0.033		Power-50%	0.008		P-value	0.3825	Power	0.036		Power-50%	0.005		P-value	0.1625		
Stouffer's	Power		0.025		Power-50%	0.025		P-value	0.7494	Power	0.120		Power-50%	0.000		P-value	0.4019		
14.1C/14.1	2	6	3905.000	2149.902	6	2811.667	1714.781	-	0.7952	6	25.540	10.507	6	157.475	100.267	-	0.4616		
14.2C/14.2	2	6	1090.000	871.393	6	4588.333	2899.660	-	0.4088	6	14.970	9.732	6	249.035	157.492	-	0.7808		
62762C/50983	2	6	6075.000	5650.225	5	3526.000	1671.046	+	0.5649	6	202.190	179.096	5	175.970	80.642	-	0.0520		
Habitat Means			3690.000	2890.507		3642.000	2095.162	+			80.900	66.445		194.160	112.800	-			
Fisher's	Power		0.003		Power-50%	0.018		P-value	0.5657	Power	0.003		Power-50%	0.015		P-value	0.5611 _x		
Stouffer's	Power		0.017		Power-50%	0.039		P-value	0.3577	Power	0.000		Power-50%	0.053		P-value	0.9318		
14.1C/14.1	3	6	2830.000	2557.521	6	11.667	8.333	-	0.0027	6	46.932	41.250	6	0.072	0.050	-	0.1142		
14.2C/14.2	3	3	0.000	0.000	6	761.667	616.314	-	0.0446	3	0.000	0.000	6	18.728	16.815	-	0.5983		
62762C/50983	3	6	70.000	50.000	5	280.000	156.141	-	0.1385	6	1.103	0.779	5	18.174	15.091	-	0.5751		
Habitat Means			966.667	869.174		351.111	260.263	-			16.012	14.010		12.325	10.652	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0439 _{xy}	Power	0.069		Power-50%	0.001		P-value	0.5407 _y		
Stouffer's	Power		0.022		Power-50%	0.001		P-value	0.1416	Power	0.146		Power-50%	0.026		P-value	0.4160		

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

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Table D-79, Page 8, December 21, 1994

Table D-79. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, August 1990. (Continued.)

Lacuna spp. - abundance (#/m^2)										Lacuna spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	-	6	5.000	3.416	6	0.000	0.000	-	0.1784	6	0.012	0.012	6	0.000	0.000	-	0.3170		
14.2C/14.2	-	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			1.667	1.139		0.000	0.000	+			0.004	0.004		0.000	0.000	+			
Fisher's		Power	0.229		Power-50%	0.095	P-value	0.2684		Power	0.000		Power-50%	0.000	P-value	0.3740			
Stouffer's		Power	0.000		Power-50%	0.040	P-value	0.3505		Power	0.000		Power-50%	0.000	P-value	0.3877			
14.1C/14.1	2	6	18.333	8.333	6	23.333	16.055	-	0.8923	6	0.038	0.017	6	0.052	0.038	-	0.8470		
14.2C/14.2	2	6	26.667	24.721	6	30.000	19.664	-	0.9280	6	0.065	0.061	6	0.087	0.064	-	0.7539		
62762C/50983	2	6	58.333	50.558	5	2.000	2.000	+	0.1529	6	0.078	0.063	5	0.000	0.000	+	0.2844		
Habitat Means			34.444	27.871		18.444	12.573	-			0.060	0.047		0.046	0.034	-			
Fisher's		Power	0.014		Power-50%	0.232	P-value	0.7692 y		Power	0.005		Power-50%	0.244	P-value	0.6799 y			
Stouffer's		Power	0.020		Power-50%	0.343	P-value	0.8932		Power	0.002		Power-50%	0.261	P-value	0.7982			
14.1C/14.1	3	6	2845.000	1227.620	6	5428.333	2964.617	-	0.9029	6	10.252	4.137	6	15.148	8.097	-	0.9375		
14.2C/14.2	3	3	2336.667	2001.602	6	10236.667	5942.187	-	0.9214	3	4.720	3.892	6	22.107	12.771	-	0.9570		
62762C/50983	3	6	816.667	280.971	5	16.000	11.225	+	0.0004	6	2.520	0.975	5	0.076	0.057	+	0.0022		
Habitat Means			1999.445	1170.064		5227.000	2972.676	-			5.831	3.001		12.444	6.975	-			
Fisher's		Power	0.003		Power-50%	0.001	P-value	0.7910x		Power	0.002		Power-50%	0.001	P-value	0.8099x			
Stouffer's		Power	0.031		Power-50%	0.000	P-value	0.9993		Power	0.005		Power-50%	0.000	P-value	0.9971			

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

z Only one site pair.

Littorina spp. - abundance (#/m^2)										Littorina spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	3553.333	1513.880	6	1188.333	348.238	+	0.3437	6	80.852	31.411	6	28.007	12.058	-	0.1379		
14.2C/14.2	1	6	1008.333	643.145	6	325.000	203.760	+	0.1044	6	11.722	6.812	6	7.738	5.363	-	0.3685		
62762C/50983	1	6	1340.000	377.059	6	435.000	249.088	+	0.0558	6	27.697	10.291	6	25.750	14.416	-	0.1713		
Habitat Means			1967.222	844.695		649.444	267.029	+			40.090	16.171		20.498	10.612	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0109		Power	---		Power-50%	---	P-value	0.0338			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0065		Power	---		Power-50%	---	P-value	0.0267			
14.1C/14.1	2	6	1840.000	602.373	6	1370.000	659.464	+	0.6057	6	19.847	6.051	6	10.003	5.520	-	0.4931		
14.2C/14.2	2	6	1110.000	858.184	6	800.000	357.183	-	0.7332	6	6.913	5.422	6	13.508	7.848	-	0.6454		
62762C/50983	2	6	756.667	330.158	5	2686.000	933.732	-	0.0503	6	13.673	7.446	5	72.416	23.549	-	0.0005		
Habitat Means			1235.556	596.905		1618.667	650.126	-			13.478	6.306		31.976	12.306	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.6164xy		Power	---		Power-50%	---	P-value	0.0035			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.9391		Power	---		Power-50%	---	P-value	0.0009			
14.1C/14.1	3	6	193.333	118.790	6	25.000	13.354	+	0.3939	6	1.625	1.408	6	0.153	0.090	+	0.8093		
14.2C/14.2	3	3	30.000	30.000	6	138.333	68.138	-	0.6525	3	0.140	0.140	6	2.995	2.650	-	0.7026		
62762C/50983	3	6	271.667	267.687	5	348.000	104.374	-	0.7108	6	8.822	8.732	5	10.602	3.779	-	0.7808		
Habitat Means			165.000	138.826		170.444	61.955	-			3.529	3.427		4.583	2.173	-			
Fisher's		Power	0.000		Power-50%	0.041	P-value	0.5765		Power	0.000		Power-50%	0.023	P-value	0.5425			
Stouffer's		Power	0.000		Power-50%	0.054	P-value	0.4114		Power	0.000		Power-50%	0.029	P-value	0.3843			

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

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

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Table D-79. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

Littorina sitkana - abundance (#/m^2)										Littorina sitkana - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	3423.333	1493.445	6	765.000	265.929	+	0.1908	6	78.920	31.167	6	22.623	11.532	+	0.1165		
14.2C/14.2	1	6	888.333	572.162	6	98.333	76.001	+	0.0292	6	10.728	6.245	6	5.697	4.370	+	0.2284		
62762C/50983	1	6	1260.000	354.467	6	378.333	226.148	+	0.0213	6	23.673	7.212	6	23.960	13.766	-	0.1943		
Habitat Means			1857.222	806.691		413.889	189.359	+			37.774	14.875		17.427	9.889	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0011		Power	0.000		Power-50%	0.000	P-value	0.1153			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0010		Power	0.000		Power-50%	0.000	P-value	0.6541			
14.1C/14.1	2	6	1606.667	598.997	6	383.333	320.174	+	0.0760	6	17.640	6.267	6	3.632	3.436	+	0.3081		
14.2C/14.2	2	6	515.000	378.354	6	383.333	211.529	-	0.8444	6	3.695	2.771	6	9.500	6.404	-	0.6704		
62762C/50983	2	6	718.333	331.637	5	1932.000	885.107	-	0.0923	6	13.370	7.283	5	56.226	23.743	-	0.0051		
Habitat Means			946.667	436.329		899.555	472.270	+			11.568	5.440		23.119	11.194	-			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.2129x		Power	---		Power-50%	---	P-value	0.0249			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.8361		Power	---		Power-50%	---	P-value	0.0083			
14.1C/14.1	3	6	123.333	59.198	6	15.000	13.102	+	0.5409	6	0.340	0.192	6	0.027	0.019	+	0.2025		
14.2C/14.2	3	3	10.000	10.000	6	120.000	60.992	-	0.6118	3	0.030	0.030	6	2.783	2.605	-	0.2089		
62762C/50983	3	6	270.000	266.020	5	146.000	44.113	+	0.5049	6	8.822	8.732	5	7.336	2.812	+	0.0082		
Habitat Means			134.444	111.739		93.667	39.402	+			3.064	2.985		3.382	1.812	+			
Fisher's	Power		0.100		Power-50%	0.102	P-value	0.4122		Power	---		Power-50%	---	P-value	0.0149 y			
Stouffer's	Power		0.164		Power-50%	0.186	P-value	0.2612		Power	---		Power-50%	---	P-value	0.0077			

x At least one site pair p-value < 0.001 in opposite direction of overall tests.

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

z Only one site pair.

Littorina scutulata - abundance (#/m^2)										Littorina scutulata - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	130.000	53.292	6	423.333	153.138	-	0.2987	6	1.932	0.854	6	5.383	2.161	-	0.1709		
14.2C/14.2	1	6	120.000	72.847	6	226.667	166.827	-	0.9610	6	0.993	0.589	6	2.042	1.260	-	0.6731		
62762C/50983	1	6	80.000	50.266	6	56.667	25.647	+	0.9900	6	4.023	3.207	6	1.790	0.732	+	0.3712		
Habitat Means			110.000	58.802		235.556	115.204	-			2.316	1.550		3.072	1.384	-			
Fisher's	Power		0.003		Power-50%	0.209	P-value	0.3559		Power	0.004		Power-50%	0.201	P-value	0.2764			
Stouffer's	Power		0.010		Power-50%	0.395	P-value	0.3825		Power	0.004		Power-50%	0.238	P-value	0.6207			
14.1C/14.1	2	6	233.333	96.977	6	986.667	454.582	-	0.9315	6	2.207	1.038	6	6.372	2.641	-	0.2430		
14.2C/14.2	2	6	595.000	480.491	6	416.667	164.391	-	0.8124	6	3.218	2.655	6	4.008	1.720	-	0.8227		
62762C/50983	2	6	38.333	27.008	5	754.000	200.913	-	0.0049	6	0.303	0.191	5	16.190	5.097	-	0.0002		
Habitat Means			288.889	201.492		719.111	273.295	-			1.909	1.295		8.857	3.153	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0237		Power	---		Power-50%	---	P-value	0.0004			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0057		Power	---		Power-50%	---	P-value	0.0001			
14.1C/14.1	3	6	70.000	66.030	6	10.000	8.165	+	0.3195	6	1.285	1.237	6	0.127	0.095	+	0.5551		
14.2C/14.2	3	3	20.000	20.000	6	18.333	8.724	+	0.9818	3	0.110	0.110	6	0.212	0.116	-	0.4393		
62762C/50983	3	6	1.667	1.667	5	202.000	82.183	-	0.0033	6	0.000	0.000	5	3.266	1.566	-	0.0017		
Habitat Means			30.556	29.232		76.778	33.024	+			0.465	0.449		1.202	0.592	-			
Fisher's	Power		0.230		Power-50%	0.155	P-value	0.5317xy		Power	---		Power-50%	---	P-value	0.0067			
Stouffer's	Power		0.228		Power-50%	0.241	P-value	0.9918		Power	---		Power-50%	---	P-value	0.0017			

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

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Table D-79, Page 12, December 21, 1994

Table D-79. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, August 1990. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	4673.333	3190.302	6	1105.000	644.576	+	0.8918	6	271.760	171.858	6	130.320	108.035	+	0.9506		
14.2C/14.2	1	6	6571.667	5521.687	6	973.333	921.733	+	0.2693	6	482.587	414.883	6	126.158	125.543	+	0.3590		
62762C/50983	1	6	9460.000	3929.640	6	278.333	276.338	+	0.0077	6	764.875	336.736	6	30.303	30.100	+	0.0269		
Habitat Means			6901.667	4213.876		785.555	614.216	+			506.407	307.832		95.594	87.893	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0103	Power	---		Power-50%	---		P-value	0.0352		
Stouffer's	Power		---		Power-50%	0.103		P-value	0.0026	Power	---		Power-50%	---		P-value	0.0106		
14.1C/14.1	2	6	5975.000	2354.926	6	6593.333	5390.731	-	0.9515	6	128.400	88.994	6	88.438	63.460	-	0.4557		
14.2C/14.2	2	6	15466.667	13554.269	6	1320.000	636.045	-	0.1706	6	176.110	165.083	6	20.017	9.396	-	0.6924		
62762C/50983	2	6	12056.667	8399.737	5	5502.000	2650.453	-	0.5396	6	322.878	231.849	5	2703.992	1091.524	-	0.0884		
Habitat Means			11166.111	8102.977		4471.778	2892.410	+			209.129	161.975		937.482	388.127	+			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.1831	Power	0.000		Power-50%	0.000		P-value	0.5222 ^{xy}		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.1750	Power	0.000		Power-50%	0.000		P-value	0.8914		
14.1C/14.1	3	6	5303.333	2458.126	6	145.000	74.241	+	0.1806	6	59.095	34.006	6	0.225	0.126	+	0.0024		
14.2C/14.2	3	3	480.000	292.632	6	1811.667	911.743	-	0.7741	3	2.057	1.271	6	7.907	5.046	-	0.4084		
62762C/50983	3	6	6850.000	5307.015	5	3178.000	1488.951	+	0.3589	6	100.093	73.494	5	583.498	521.439	-	0.5268		
Habitat Means			4211.111	2685.924		1711.556	824.978	+			53.748	36.257		197.210	175.537	-			
Fisher's	Power		0.001		Power-50%	0.001		P-value	0.1614	Power	0.000		Power-50%	0.002		P-value	0.4404 ^x		
Stouffer's	Power		0.000		Power-50%	0.001		P-value	0.1272	Power	0.000		Power-50%	0.000		P-value	0.5205		

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	301.667	189.234	6	18.333	16.415	+	0.2315	6	0.412	0.268	6	0.020	0.020	+	0.2127		
14.2C/14.2	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632		
62762C/50983	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.002	0.002	6	0.000	0.000	+	0.3632		
Habitat Means			101.667	64.189		6.111	5.472	+			0.138	0.090		0.007	0.007	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0843	Power	---		Power-50%	---		P-value	0.0794		
Stouffer's	Power		---		Power-50%	0.235		P-value	0.0760	Power	---		Power-50%	---		P-value	0.0740		
14.1C/14.1	2	6	910.000	713.508	6	21.667	17.966	+	0.0022	6	0.995	0.709	6	0.027	0.021	-	0.0018		
14.2C/14.2	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	2	6	113.333	89.057	5	4.000	2.449	+	0.3341	6	0.137	0.121	5	0.000	0.000	-	0.1996		
Habitat Means			341.111	267.522		8.556	6.805	+			0.377	0.277		0.009	0.007	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0049	Power	---		Power-50%	---		P-value	0.0027		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0394	Power	---		Power-50%	---		P-value	0.0195		
14.1C/14.1	3	6	581.667	421.002	6	11.667	6.540	-	0.1087	6	0.610	0.420	6	0.005	0.003	+	0.1549		
14.2C/14.2	3	3	400.000	400.000	6	23.333	21.396	-	0.5215	3	0.427	0.427	6	0.007	0.007	+	0.3763		
62762C/50983	3	6	71.667	58.448	5	4.000	4.000	-	0.3456	6	0.092	0.080	5	0.000	0.000	+	0.1825		
Habitat Means			351.111	293.150		13.000	10.645	+			0.376	0.309		0.004	0.003	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0614	Power	---		Power-50%	---		P-value	0.0393		
Stouffer's	Power		---		Power-50%	0.360		P-value	0.0664	Power	---		Power-50%	---		P-value	0.0302		

x At least one site pair has a power < 0.05 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-79. Page 13. December 21, 1994

Table D-79. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, August 1990. (Continued.)

Pagurus spp. - abundance (#/m^2)										Pagurus spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	0.000	0.000	6	55.000	41.130	-	0.1781	6	0.000	0.000	6	1.255	0.844	-	0.1751		
14.2C/14.2	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.333	0.333	6	0.000	0.000	+	0.3632		
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.556	0.556		18.333	13.710	-			0.111	0.111		0.418	0.281	-			
Fisher's	Power		0.030		Power-50%	---	P-value	0.3570		Power	0.123		Power-50%	---	P-value	0.3536			
Stouffer's	Power		0.000		Power-50%	---	P-value	0.4503		Power	0.000		Power-50%	---	P-value	0.4493			
14.1C/14.1	2	6	3.333	2.108	6	21.667	16.003	-	0.3781	6	0.090	0.059	6	1.727	1.113	-	0.4166		
14.2C/14.2	2	6	0.000	0.000	6	8.333	4.773	-	0.0823	6	0.000	0.000	6	0.453	0.306	-	0.0799		
62762C/50983	2	6	1.667	1.667	5	8.000	2.000	-	0.0364	6	0.035	0.035	5	0.086	0.027	-	0.0588		
Habitat Means			1.667	1.258		12.667	7.592	-			0.042	0.031		0.755	0.482	-			
Fisher's	Power	---			Power-50%	---	P-value	0.0070		Power	---		Power-50%	---	P-value	0.0107			
Stouffer's	Power	---			Power-50%	0.698	P-value	0.0039		Power	---		Power-50%	---	P-value	0.0069			
14.1C/14.1	3	6	38.333	14.004	6	41.667	24.415	-	0.8828	6	1.473	0.612	6	4.197	3.897	-	0.2892		
14.2C/14.2	3	3	0.000	0.000	6	73.333	44.397	-	0.0813	3	0.000	0.000	6	0.943	0.723	-	0.7620		
62762C/50983	3	6	10.000	4.472	5	56.000	9.274	-	0.0082	6	0.670	0.434	5	3.900	0.541	-	0.1825		
Habitat Means			16.111	6.159		57.000	26.029	-			0.714	0.349		3.013	1.720	-			
Fisher's	Power	---			Power-50%	---	P-value	0.0041		Power	0.000		Power-50%	0.003	P-value	0.1021			
Stouffer's	Power	---			Power-50%	0.312	P-value	0.0015		Power	---		Power-50%	---	P-value	0.0539			

y Direction of difference between sites
z Only one site pair.

means is different than direction of overall tests.

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Nucella spp. - abundance (#/m^2)										Nucella spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	10.000	10.000	6	0.000	0.000	+	0.3632	6	10.183	10.183	6	0.000	0.000	+	0.3632		
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			3.333	3.333		0.000	0.000	+			3.394	3.394		0.000	0.000	-			
Fisher's	Power	---			Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028			
Stouffer's	Power	---			Power-50%	---	P-value	0.3977		Power	---		Power-50%	---	P-value	0.3977			
14.1C/14.1	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	5.395	5.395	-	0.3632		
14.2C/14.2	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	2	6	3.333	3.333	5	0.000	0.000	+	0.3632	6	7.938	7.938	5	0.000	0.000	+	0.3632		
Habitat Means			1.111	1.111		0.556	0.556	-			2.646	2.646		1.798	1.798	-			
Fisher's	Power	---			Power-50%	---	P-value	0.5186 y		Power	---		Power-50%	---	P-value	0.5186 y			
Stouffer's	Power	---			Power-50%	---	P-value	0.7165		Power	---		Power-50%	---	P-value	0.7165			
14.1C/14.1	3	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	6.348	6.348	6	0.000	0.000	+	0.3632		
14.2C/14.2	3	3	3.333	3.333	6	1.667	1.667	+	0.6263	3	0.077	0.077	6	0.045	0.045	+	0.6416		
62762C/50983	3	6	38.333	29.031	5	20.000	11.402	+	0.9371	6	75.352	48.092	5	53.038	38.841	-	0.8443		
Habitat Means			14.444	11.344		7.222	4.356	+			27.259	18.172		17.694	12.962	-			
Fisher's	Power	0.285			Power-50%	0.252	P-value	0.2983		Power	0.292		Power-50%	0.337	P-value	0.2845			
Stouffer's	Power	0.185			Power-50%	0.318	P-value	0.3191		Power	0.253		Power-50%	0.317	P-value	0.2839			

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

Table D-79. Page 15. December 21, 1994

Table D-79. Page 16. December 21, 1994

Table D-79. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Sheltered Rocky. August 1990. (Continued.)

Site Pair	MVD	Nucella lima - abundance (#/m ²)									Nucella lima - biomass (g/m ²)								
		N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P	
14.1C/14.1	1	6	10.000	10.000	6	0.000	0.000	+	0.3032		6	10.163	10.163	6	0.000	0.000	-	0.3032	
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			3.333	3.333		0.000	0.000	+				3.394	3.394		0.000	0.000	+		
Fisher's	Power	---			Power-50%	---		P-value	0.4028		Power	---		Power-50%	---		P-value	0.4028	
Stouffer's	Power	---			Power-50%	---		P-value	0.3977		Power	---		Power-50%	---		P-value	0.3977	
14.1C/14.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
14.2C/14.2	2	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
62762C/50983	2	6	3.333	3.333	5	0.000	0.000	+	0.3632		6	7.938	7.938	5	0.000	0.000	-	0.3632	
Habitat Means			1.111	1.111		0.000	0.000	+				2.646	2.646		0.000	0.000	-		
Fisher's	Power	---			Power-50%	---		P-value	0.4028		Power	---		Power-50%	---		P-value	0.4028	
Stouffer's	Power	---			Power-50%	---		P-value	0.2027		Power	---		Power-50%	---		P-value	0.2027	
14.1C/14.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
14.2C/14.2	3	3	0.000	0.000	6	0.000	0.000	o	1.0000		3	0.000	0.000	6	0.000	0.000	o	1.0000	
62762C/50983	3	6	30.000	30.000	5	2.000	2.000	+	0.7214		6	48.975	48.975	5	2.370	2.370	-	0.9400	
Habitat Means			10.000	10.000		0.667	0.667	+				16.325	16.325		0.790	0.790	-		
Fisher's	Power	---			Power-50%	---		P-value	0.5681		Power	---		Power-50%	---		P-value	0.6385	
Stouffer's	Power	---			Power-50%	---		P-value	0.3723		Power	---		Power-50%	---		P-value	0.4726	

Site Pair	MVD	Nucella lamellosa - abundance (#/m ²)									Nucella lamellosa - biomass (g/m ²)								
		N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P	
14.1C/14.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o				0.000	0.000		0.000	0.000	o		
Fisher's	Power	---			Power-50%	---		P-value	0.6552		Power	---		Power-50%	---		P-value	0.6552	
Stouffer's	Power	---			Power-50%	---		P-value	0.5000		Power	---		Power-50%	---		P-value	0.5000	
14.1C/14.1	2	6	0.000	0.000	6	1.667	1.667	-	0.3632		6	0.000	0.000	6	5.395	5.395	-	0.3632	
14.2C/14.2	2	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
62762C/50983	2	6	0.000	0.000	5	0.000	0.000	o	1.0000		6	0.000	0.000	5	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.556	0.556	-				0.000	0.000		1.798	1.798	-		
Fisher's	Power	---			Power-50%	---		P-value	0.4028		Power	---		Power-50%	---		P-value	0.4028	
Stouffer's	Power	---			Power-50%	---		P-value	0.3977		Power	---		Power-50%	---		P-value	0.3977	
14.1C/14.1	3	6	1.667	1.667	6	0.000	0.000	+	0.3632		6	6.348	6.348	6	0.000	0.000	-	0.3632	
14.2C/14.2	3	3	3.333	3.333	6	0.000	0.000	+	0.4226		3	0.077	0.077	6	0.000	0.000	-	0.4226	
62762C/50983	3	6	8.333	6.540	5	18.000	9.695	-	0.3984		6	26.377	20.760	5	50.668	36.517	-	0.4426	
Habitat Means			4.444	3.847		6.000	3.232	+				10.934	9.062		16.889	12.172	-		
Fisher's	Power	0.719			Power-50%	0.400		P-value	0.3241 y		Power	0.695		Power-50%	0.418		P-value	0.3189 y	
Stouffer's	Power	0.396			Power-50%	0.459		P-value	0.6120		Power	0.761		Power-50%	0.379		P-value	0.5849	

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

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

z Only one site pair.

Table D-79. Page 17. December 21, 1994

Table D-79. Invertebrate Abundance and Biomass, Cook Inlet/Kenai, Sheltered Rocky, August 1990. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	63.333	33.133	6	31.667	16.816	+	0.5546	6	0.070	0.030	6	0.137	0.133	-	0.3938
14.2C/14.2	1	6	35.000	29.183	6	1001.667	1001.667	-	0.8102	6	0.082	0.069	6	2.442	2.442	-	0.9017
62762C/50983	1	6	10.000	10.000	6	3.333	2.108	+	0.9324	6	0.010	0.010	6	0.005	0.005	-	0.9761
Habitat Means			36.111	24.205		345.556	340.197	+			0.054	0.036		0.861	0.860	-	
Fisher's		Power	0.109		Power-50%	0.334	P-value	0.5272	y	Power	0.027		Power-50%	0.47	P-value	0.4031	
Stouffer's		Power	0.141		Power-50%	0.491	P-value	0.4296		Power	0.029		Power-50%	0.88	P-value	0.4009	
14.1C/14.1	2	6	203.333	118.143	6	203.333	164.148	o	1.0000	6	1.035	0.753	6	0.745	0.606	-	0.8282
14.2C/14.2	2	6	385.000	230.025	6	30.000	20.656	-	0.3536	6	2.105	1.128	6	0.122	0.084	-	0.1447
62762C/50983	2	6	665.000	563.032	5	14.000	6.782	+	0.1101	6	2.185	1.693	5	0.024	0.013	-	0.1303
Habitat Means			417.778	303.733		82.444	63.862	+			1.775	1.191		0.297	0.234	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0998		Power	---		Power-50%	---	P-value	0.0521	
Stouffer's		Power	---		Power-50%	0.259	P-value	0.0421		Power	---		Power-50%	---	P-value	0.0313	
14.1C/14.1	3	6	956.667	405.731	6	13708.333	13292.737	-	0.2720	6	4.045	1.906	6	7.067	5.546	-	0.4225
14.2C/14.2	3	3	503.333	343.382	6	648.333	258.462	-	0.5715	3	1.033	0.764	6	1.930	0.733	-	0.8450
62762C/50983	3	6	790.000	328.360	5	48.000	19.079	+	0.0459	6	2.560	0.833	5	0.302	0.129	+	0.5665
Habitat Means			750.000	359.158		4801.555	4523.426	-			2.546	1.168		3.100	2.136	-	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.3653	x	Power	0.000		Power-50%	0.00	P-value	0.4816	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.9119		Power	0.000		Power-50%	0.00	P-value	0.5948	

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

Table 79, Page 19, December 21, 1994

		Isopoda - abundance (#/m ²)								Isopoda - biomass (g/m ²)							
site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	-	6	3.333	2.108	6	33.333	12.019	-	0.0036	6	0.003	0.003	6	0.388	0.241	-	0.0005
14.2C/14.2	-	6	11.667	9.804	6	1.667	1.667	+	0.3807	6	0.825	0.825	6	0.003	0.003	+	0.3934
62762C/50983	1	6	10.000	10.000	6	3.333	2.108	+	0.8832	6	0.008	0.008	6	0.010	0.010	-	0.9318
Habitat Means			8.333	7.304		12.778	5.265	+			0.279	0.279		0.134	0.085	-	
Fisher's		Power	0.935		Power-50%	0.521	P-value	0.5495		Power	---		Power-50%	---	P-value	0.0050	
Stouffer's		Power	0.945		Power-50%	0.582	P-value	0.6723		Power	0.000		Power-50%	0.51	P-value	0.2040	
14.1C/14.1	2	6	30.000	22.361	6	113.333	82.206	-	0.2627	6	0.048	0.033	6	0.373	0.136	-	0.1205
14.2C/14.2	2	6	171.667	60.079	6	56.667	39.721	+	0.1258	6	1.399	0.559	6	0.243	0.235	-	0.0075
62762C/50983	2	6	93.333	54.508	5	12.000	5.831	+	0.2966	6	0.443	0.345	5	0.008	0.008	+	0.2026
Habitat Means			98.333	45.649		60.667	42.586	+			0.630	0.312		0.208	0.126	-	
Fisher's		Power	0.026		Power-50%	0.113	P-value	0.1411		Power	---		Power-50%	---	P-value	0.0144	
Stouffer's		Power	0.041		Power-50%	0.178	P-value	0.1418		Power	---		Power-50%	---	P-value	0.0687	
14.1C/14.1	3	6	568.333	427.430	6	291.667	245.892	-	0.4281	6	1.379	0.583	6	0.735	0.418	-	0.7503
14.2C/14.2	3	3	33.333	24.037	6	141.667	41.265	-	0.7989	3	0.050	0.029	6	0.347	0.158	-	0.2401
62762C/50983	3	6	698.333	247.122	5	142.000	39.294	-	0.1348	6	1.292	0.439	5	4.226	3.224	-	0.8164
Habitat Means			433.333	232.863		191.778	108.817	+			0.907	0.350		1.769	1.267	-	
Fisher's		Power	0.005		Power-50%	0.005	P-value	0.1475		Power	0.000		Power-50%	0.03	P-value	0.3234	
Stouffer's		Power	---		Power-50%	0.004	P-value	0.0640		Power	0.000		Power-50%	0.00	P-value	0.3240	

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

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Table D-79. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, August 1990. (Continued.)

Errant polychaetes - abundance (#/m ²)										Errant polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	123.333	92.147	6	33.333	27.406	+	0.9280	6	0.218	0.147	6	0.030	0.024	-	0.7171		
14.2C/14.2	1	6	10.000	6.831	6	0.000	0.000	+	0.1773	6	0.065	0.041	6	0.000	0.000	+	0.1747		
62762C/50983	1	6	8.333	4.773	6	0.000	0.000	+	0.0823	6	0.058	0.038	6	0.000	0.000	+	0.1555		
Habitat Means			47.222	34.584		11.111	9.135	+			0.114	0.075		0.010	0.008	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0470	Power	---		Power-50%	---		P-value	0.0612		
Stouffer's	Power		---		Power-50%	0.677		P-value	0.0227	Power	---		Power-50%	---		P-value	0.0367		
14.1C/14.1	2	6	46.667	26.034	6	160.000	142.127	-	0.3341	6	0.138	0.078	6	0.552	0.395	-	0.2625		
14.2C/14.2	2	6	141.667	127.917	6	30.000	28.048	+	0.3412	6	0.452	0.444	6	0.137	0.131	-	0.3910		
62762C/50983	2	6	51.667	21.667	5	34.000	13.266	+	0.8849	6	0.125	0.054	5	0.024	0.018	-	0.7919		
Habitat Means			80.000	58.539		74.667	61.147	+			0.238	0.192		0.238	0.181	+			
Fisher's	Power		0.072		Power-50%	0.204		P-value	0.4774	Power	0.012		Power-50%	0.074		P-value	0.4938		
Stouffer's	Power		0.044		Power-50%	0.331		P-value	0.4490	Power	0.036		Power-50%	0.052		P-value	0.4341		
14.1C/14.1	3	6	153.333	139.419	6	210.000	136.431	-	0.7158	6	0.162	0.158	6	0.528	0.277	-	0.1872		
14.2C/14.2	3	3	46.667	46.667	6	26.667	21.239	+	0.9164	3	0.414	0.414	6	0.128	0.124	-	0.3972		
62762C/50983	3	6	396.667	148.384	5	64.000	32.031	-	0.0495	6	0.369	0.197	5	0.044	0.019	+	0.2634		
Habitat Means			198.889	111.490		100.222	63.234	-			0.315	0.256		0.233	0.140	+			
Fisher's	Power		0.097		Power-50%	0.222		P-value	0.1313	Power	0.093		Power-50%	0.122		P-value	0.2784		
Stouffer's	Power		---		Power-50%	0.330		P-value	0.0424	Power	0.131		Power-50%	0.078		P-value	0.1871		

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

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

✗ Only one site pair.

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Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	41.667	41.667	6	11.667	11.667	+	0.8600	6	0.045	0.045	6	0.270	0.270	-	0.8509		
14.2C/14.2	1	6	1.667	1.667	6	0.000	0.000	-	0.3632	6	0.001	0.001	6	0.000	0.000	-	0.3632		
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			14.445	14.445		3.889	3.889	+			0.015	0.015		0.090	0.090	-			
Fisher's	Power		---		Power-50%	---		P-value	0.3710	Power	---		Power-50%	---		P-value	0.4337		
Stouffer's	Power		---		Power-50%	---		P-value	0.3785	Power	---		Power-50%	---		P-value	0.4185		
14.1C/14.1	2	6	28.333	22.571	6	11.667	7.491	+	0.6438	6	0.000	0.000	6	0.003	0.003	-	0.4922		
14.2C/14.2	2	6	181.667	181.667	6	0.000	0.000	+	0.3632	6	0.173	0.173	6	0.000	0.000	-	0.3632		
62762C/50983	2	6	2231.667	970.146	5	20.000	12.649	+	0.1058	6	0.252	0.129	5	0.010	0.010	-	0.1131		
Habitat Means			813.889	391.461		10.556	6.713	+			0.142	0.101		0.004	0.004	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0726	Power	0.045		Power-50%	0.383		P-value	0.1369		
Stouffer's	Power		---		Power-50%	0.530		P-value	0.0306	Power	---		Power-50%	---		P-value	0.0651		
14.1C/14.1	3	6	1763.333	1745.345	6	31.667	16.816	+	0.4282	6	0.134	0.133	6	0.012	0.008	-	0.9364		
14.2C/14.2	3	3	0.000	0.000	6	25.000	18.212	-	0.4546	3	0.000	0.000	6	0.001	0.001	-	0.9290		
62762C/50983	3	6	2721.667	2509.153	5	32.000	13.928	+	0.1104	6	0.482	0.419	5	0.040	0.035	+	0.1555		
Habitat Means			1495.000	1418.166		29.556	16.319	+			0.205	0.184		0.018	0.015	+			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.1527	Power	0.000		Power-50%	0.000		P-value	0.2474		
Stouffer's	Power		---		Power-50%	0.002		P-value	0.0703	Power	---		Power-50%	---		P-value	0.0973		

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

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Table D-79. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, August 1990. (Continued.)

Site Pair	MVD	Oligochaeta - abundance (#/m ²)								Oligochaeta - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	833.333	576.742	6	770.000	628.702	-	0.6902	6	0.168	0.120	6	0.472	0.358	-	0.8777
14.2C/14.2	1	6	108.333	102.451	6	273.333	223.721	-	0.7827	6	0.022	0.022	6	0.233	0.189	-	0.4604
62762C/50983	1	6	248.333	183.147	6	10.000	10.000	-	0.0794	6	0.049	0.035	6	0.017	0.017	-	0.5183
Habitat Means			396.666	287.447		351.111	287.474	-			0.080	0.059		0.241	0.188	-	
Fisher's		Power	0.001		Power-50%	0.117	P-value	0.1438		Power	0.463		Power-50%	0.039	P-value	0.5203	
Stouffer's		Power	---		Power-50%	0.250	P-value	0.0504		Power	0.742		Power-50%	0.025	P-value	0.6318	
14.1C/14.1	2	6	1038.333	618.074	6	393.333	346.205	+	0.0885	6	0.180	0.121	6	0.115	0.098	+	0.6244
14.2C/14.2	2	6	358.333	305.859	6	11.667	9.804	+	0.2747	6	0.085	0.079	6	0.003	0.003	+	0.4531
62762C/50983	2	6	6046.667	5078.263	5	60.000	34.205	+	0.0979	6	1.383	1.332	5	0.038	0.031	+	0.2169
Habitat Means			2481.111	2000.732		155.000	130.071	+			0.549	0.511		0.052	0.044	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0125		Power	0.000		Power-50%	0.003	P-value	0.1360	
Stouffer's		Power	---		Power-50%	0.023	P-value	0.0104		Power	---		Power-50%	---	P-value	0.0690	
14.1C/14.1	3	6	1696.667	1515.528	6	15.000	9.220	+	0.0109	6	0.379	0.361	6	0.000	0.000	+	0.1702
14.2C/14.2	3	3	10.000	10.000	6	11.667	11.667	-	0.7704	3	0.001	0.001	6	0.000	0.000	-	0.6263
62762C/50983	3	6	2803.333	2369.330	5	42.000	22.450	-	0.0079	6	1.280	1.013	5	0.038	0.036	-	0.2783
Habitat Means			1503.333	1298.286		22.889	14.446	+			0.553	0.458		0.013	0.012	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0010		Power	---		Power-50%	---	P-value	0.0826	
Stouffer's		Power	---		Power-50%	0.003	P-value	0.0011		Power	---		Power-50%	---	P-value	0.0640	

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

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Site Pair	MVD	Total Invertebrates - abundance (#/m ²)								Total Invertebrates - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	12365.333	2869.106	6	8691.667	3191.632	+	0.3967	6	630.606	284.137	6	443.367	182.336	+	0.3726
14.2C/14.2	1	6	13191.667	7837.188	6	5593.333	3086.326	+	0.2439	6	729.428	537.923	6	278.330	244.109	+	0.1643
62762C/50983	1	6	23183.334	7812.348	6	3580.000	1495.413	+	0.1097	6	1652.794	624.144	6	274.784	125.918	+	0.2684
Habitat Means			16246.111	7172.881		5955.000	2591.124	+			1004.343	475.409		332.814	184.121	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0766		Power	0.000		Power-50%	0.000	P-value	0.1067	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0361		Power	---		Power-50%	---	P-value	0.0779	
14.1C/14.1	2	6	17703.334	4109.932	6	15298.333	8500.044	-	0.8892	6	581.268	191.179	6	518.854	246.430	-	0.9379
14.2C/14.2	2	6	39251.668	17041.129	6	18000.000	10615.562	-	0.2241	6	504.024	259.458	6	806.907	614.332	-	0.7059
62762C/50983	2	6	33111.668	15984.266	5	28610.000	12300.896	-	0.8036	6	2274.523	762.512	5	4527.592	1030.618	-	0.0114
Habitat Means			30022.223	12378.442		20636.111	10472.167	-			1119.938	404.383		1951.118	630.460	-	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.2514		Power	---		Power-50%	---	P-value	0.0334	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.2697		Power	---		Power-50%	---	P-value	0.0082	
14.1C/14.1	3	6	20585.000	4778.998	6	23695.000	15029.013	-	0.8033	6	1926.785	1665.113	6	83.349	13.091	-	0.0829
14.2C/14.2	3	3	5676.667	3116.057	6	21380.000	4952.929	-	0.3092	3	45.513	26.140	6	182.307	40.924	-	0.1124
62762C/50983	3	6	22356.666	10555.002	5	11112.000	4013.344	-	0.3937	6	3202.790	1387.869	5	901.876	542.240	-	0.3468
Habitat Means			16206.111	6150.019		18729.000	7998.429	-			1725.029	1026.374		389.177	198.752	-	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.4236		Power	0.000		Power-50%	0.000	P-value	0.1252	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.6625		Power	0.000		Power-50%	0.000	P-value	0.1834	

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-79, Page 24, December 21, 1994

Table D-80. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	20.000	18.074	5	14.000	8.718	+	0.7900	6	4.053	3.615	5	4.830	2.990	-	0.8394		
14.2C/14.2	1	6	18.333	18.333	6	3.333	2.108	+	0.4866	6	2.457	2.457	6	0.363	0.233	+	0.5678		
62762C/50983	1	6	53.333	24.313	6	5.000	2.236	+	0.0308	6	9.410	3.447	6	1.785	1.025	+	0.0441		
Habitat Means			30.555	20.240		7.444	4.354	+			5.307	3.173		2.326	1.416	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0425		Power	---		Power-50%	---	P-value	0.0814		
Stouffer's			Power	---		Power-50%	0.092	P-value	0.0122		Power	---		Power-50%	---	P-value	0.0257		
14.1C/14.1	2	6	65.000	36.309	6	43.333	27.406	+	0.5346	6	14.942	10.890	6	12.127	9.455	+	0.8207		
14.2C/14.2	2	5	78.000	39.166	6	13.333	4.216	+	0.0841	5	24.822	14.444	6	5.758	4.044	+	0.1506		
62762C/50983	2	6	45.000	13.354	6	33.333	12.561	+	0.7375	6	16.932	8.020	6	8.952	3.433	+	0.5220		
Habitat Means			62.667	29.610		30.000	14.728	+			18.899	11.118		8.946	5.644	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0893		Power	0.000		Power-50%	0.001	P-value	0.1406		
Stouffer's			Power	0.001		Power-50%	0.008	P-value	0.1645		Power	0.000		Power-50%	0.013	P-value	0.1445		
14.1C/14.1	3	6	30.000	8.563	4	7.500	4.787	+	0.0860	6	6.470	2.739	4	2.680	1.559	+	0.4379		
14.2C/14.2	3	4	7.500	4.787	6	11.667	7.923	-	0.7437	4	3.075	2.708	6	6.893	3.878	-	0.4346		
62762C/50983	3	6	31.667	11.667	6	10.000	6.325	+	0.0657	6	8.227	4.609	6	1.085	0.674	+	0.1090		
Habitat Means			23.056	8.339		9.722	6.345	+			5.924	3.352		3.553	2.037	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0290		Power	0.005		Power-50%	0.217	P-value	0.1550		
Stouffer's			Power	---		Power-50%	0.491	P-value	0.0187		Power	---		Power-50%	---	P-value	0.0714		

Lottia pelta - abundance (#/m ²)										Lottia pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	11.667	11.667	5	0.000	0.000	+	0.3833	6	3.353	3.353	5	0.000	0.000	+	0.4299		
14.2C/14.2	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.155	0.155	6	0.157	0.157	-	1.0000		
62762C/50983	1	6	21.667	17.966	6	1.667	1.667	+	0.2529	6	4.158	3.224	6	0.955	0.955	+	0.4131		
Habitat Means			11.667	10.433		1.111	1.111	+			2.555	2.244		0.371	0.371	+			
Fisher's			Power	0.469		Power-50%	0.308	P-value	0.1836		Power	0.403		Power-50%	0.425	P-value	0.2677		
Stouffer's			Power	---		Power-50%	0.391	P-value	0.0977		Power	0.352		Power-50%	0.415	P-value	0.1651		
14.1C/14.1	2	6	58.333	34.100	6	11.667	9.804	+	0.0636	6	14.338	10.443	6	2.502	1.913	+	0.2105		
14.2C/14.2	2	5	18.000	8.602	6	11.667	4.773	+	0.8047	5	10.070	6.858	6	5.708	4.058	+	0.6561		
62762C/50983	2	6	33.333	16.262	6	28.333	10.138	-	0.8378	6	13.032	8.716	6	7.940	3.356	+	0.5860		
Habitat Means			36.555	19.655		17.222	8.238	+			12.480	8.672		5.383	3.109	+			
Fisher's			Power	0.040		Power-50%	0.359	P-value	0.1067		Power	0.024		Power-50%	0.253	P-value	0.1633		
Stouffer's			Power	0.093		Power-50%	0.524	P-value	0.2158		Power	0.041		Power-50%	0.352	P-value	0.1630		
14.1C/14.1	3	6	25.000	7.638	4	0.000	0.000	+	0.0231	6	5.888	2.793	4	0.000	0.000	+	0.0048		
14.2C/14.2	3	4	2.500	2.500	6	10.000	8.165	-	0.4754	4	0.153	0.153	6	2.852	1.821	-	0.6152		
62762C/50983	3	6	13.333	9.545	6	3.333	2.108	+	0.2902	6	5.175	2.918	6	0.498	0.385	+	0.4194		
Habitat Means			13.611	6.561		4.444	3.424	+			3.739	1.955		1.117	0.735	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0381		Power	---		Power-50%	---	P-value	0.0142		
Stouffer's			Power	---		Power-50%	0.437	P-value	0.0789		Power	---		Power-50%	---	P-value	0.0808		

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

Table D-80, Page 1, December 21, 1994

Table D-80, Page 2, December 21, 1994

Table D-80. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, May 1991. (Continued.)

Tectura persona - abundance (#/m ²)										Tectura persona - biomass (g/m ²)									
Sit. Pa...	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	0.000	0.000	5	12.000	8.000	-	0.1806	6	0.000	0.000	5	4.212	2.580	-	0.1778		
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	11.667	3.073	6	1.667	1.667	+	0.0140	6	2.222	0.919	6	0.688	0.688	-	0.0296		
Habitat Means			3.889	1.024		4.556	3.222	+			0.741	0.306		1.633	1.089	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0741	y	Power	0.000		Power-50%	0.000	P-value	0.1247	y		
Stouffer's	Power		---		Power-50%	---	P-value	0.0310		Power	---		Power-50%	---	P-value	0.0541			
14.1C/14.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
14.2C/14.2	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	2	6	6.667	6.667	6	3.333	3.333	+	0.8920	6	0.728	0.728	6	0.218	0.218	+	0.9153		
Habitat Means			2.222	2.222		1.111	1.111	+			0.243	0.243		0.073	0.073	+			
Fisher's	Power		---		Power-50%	---	P-value	0.6244		Power	---		Power-50%	---	P-value	0.6313			
Stouffer's	Power		---		Power-50%	---	P-value	0.4507		Power	---		Power-50%	---	P-value	0.4613			
14.1C/14.1	3	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
14.2C/14.2	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-80, Page 3. December 21, 1994

Tectura scutum - abundance (#/m ²)										Tectura scutum - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
14.1C/14.1	2	6	0.000	0.000	6	23.333	23.333	-	0.3632	6	0.000	0.000	6	9.038	9.038	-	0.3632		
14.2C/14.2	2	5	32.000	29.563	6	0.000	0.000	+	0.2115	5	12.320	11.944	6	0.000	0.000	+	0.1891		
62762C/50983	2	6	3.333	3.333	6	1.667	1.667	+	0.8708	6	2.813	2.813	6	0.793	0.793	+	0.9238		
Habitat Means			11.778	10.965		8.333	8.333	+			5.044	4.919		3.277	3.277	+			
Fisher's	Power		0.021		Power-50%	0.036	P-value	0.3637		Power	0.013		Power-50%	0.020	P-value	0.3532			
Stouffer's	Power		0.028		Power-50%	0.050	P-value	0.4030		Power	0.001		Power-50%	0.070	P-value	0.4197			
14.1C/14.1	3	6	5.000	5.000	4	5.000	2.887	o	0.4835	6	0.582	0.582	4	2.060	1.230	-	0.6728		
14.2C/14.2	3	4	2.500	2.500	6	1.667	1.667	-	0.8225	4	2.790	2.790	6	4.042	4.042	-	0.7205		
62762C/50983	3	6	18.333	10.462	6	1.667	1.667	-	0.1102	6	3.052	2.107	6	0.283	0.283	+	0.3793		
Habitat Means			8.611	5.987		2.778	2.074	-			2.141	1.826		2.128	1.852	-			
Fisher's	Power		0.316		Power-50%	0.405	P-value	0.2289		Power	0.076		Power-50%	0.391	P-value	0.5906	y		
Stouffer's	Power		---		Power-50%	0.496	P-value	0.0924		Power	0.056		Power-50%	0.411	P-value	0.7198			

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

Table D-80, Page 4. December 21, 1994

Table D-80. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Balanomorphs - abundance (#/m²)										Balanomorphs - biomass (g/m²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	1886.667	1399.247	5	940.000	503.468	+	0.5262	6	1173.228	1111.375	5	28.856	15.252	+	0.5296		
14.2C/14.2	1	6	8573.333	3944.716	6	5873.333	3049.053	+	0.5984	6	286.633	190.444	6	206.178	101.555	+	0.4785		
62762C/50983	1	6	5853.333	2640.230	6	9425.000	2844.677	-	0.3714	6	309.238	178.635	6	940.568	327.384	-	0.3789		
Habitat Means			5437.778	2661.398		5412.778	2132.399	-			589.700	493.485		391.867	148.064	-			
Fisher's		Power	0.004		Power-50%	0.006	P-value	0.4821		Power	0.002		Power-50%	0.003	P-value	0.4302			
Stouffer's		Power	0.000		Power-50%	0.016	P-value	0.6869		Power	0.004		Power-50%	0.000	P-value	0.6641			
14.1C/14.1	2	6	7600.000	2870.121	6	9160.000	3353.238	-	0.5121	6	1439.873	1007.303	6	510.128	189.002	-	0.2257		
14.2C/14.2	2	5	19684.000	6674.593	6	8405.000	3036.111	+	0.1137	5	344.242	111.764	6	501.388	308.326	-	0.8433		
62762C/50983	2	6	8728.333	1586.563	6	26671.666	9954.797	-	0.1285	6	1123.793	611.576	6	987.295	328.636	+	0.8570		
Habitat Means			12004.111	3710.426		14745.555	5448.049	-			969.303	576.881		666.270	275.321	+			
Fisher's		Power	0.001		Power-50%	0.000	P-value	0.2148		Power	0.000		Power-50%	0.000	P-value	0.3069			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1299		Power	0.000		Power-50%	0.000	P-value	0.3250			
14.1C/14.1	3	6	5731.667	656.127	4	4092.500	1735.254	+	0.3000	6	3582.112	1146.150	4	505.057	330.120	+	0.0604		
14.2C/14.2	3	4	3237.500	3214.167	6	1108.333	546.866	+	0.3746	4	27.252	25.856	6	30.092	15.283	-	0.5454		
62762C/50983	3	6	4223.333	1235.620	6	6525.000	3118.321	-	0.8788	6	4251.902	2217.374	6	165.188	69.976	+	0.0170		
Habitat Means			4397.500	1701.971		3908.611	1800.147	+			2620.422	1129.793		233.446	138.460	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.2168		Power	---		Power-50%	---	P-value	0.0087			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.3411		Power	---		Power-50%	---	P-value	0.0054			

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

Table D-80. Page 5. December 21, 1994

Chthamalus dalli - abundance (#/m^2)										Chthamalus dalli - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	6.667	3.333	5	98.000	70.171	-	0.5510	6	0.028	0.016	5	2.900	2.580	-	0.5233
14.2C/14.2	1	6	3936.667	1795.301	6	2325.000	1288.464	+	0.7761	6	33.915	16.190	6	34.395	18.039	-	0.6251
62762C/50983	1	6	1330.000	1294.251	6	366.667	82.409	+	0.1075	6	5.665	5.506	6	3.142	0.756	+	0.0580
Habitat Means			1757.778	1030.962		929.889	480.348	+			13.203	7.237		13.479	7.125	-	
Fisher's	Power		0.033		Power-50%	0.202	P-value	0.2113		Power	0.020		Power-50%	0.188	P-value	0.5353	
Stouffer's	Power		---		Power-50%	0.439	P-value	0.0832		Power	0.002		Power-50%	0.253	P-value	0.9213	
14.1C/14.1	2	6	136.667	115.547	6	1030.000	578.481	-	0.1699	6	0.855	0.697	6	11.860	6.816	-	0.2840
14.2C/14.2	2	5	13296.000	6179.793	6	4115.000	1911.939	+	0.3024	5	128.554	60.789	6	52.508	28.834	-	0.1952
62762C/50983	2	6	1130.000	754.268	6	12651.667	6581.675	-	0.0200	6	7.213	4.299	6	57.573	20.910	-	0.0373
Habitat Means			4854.222	2349.869		5932.222	3024.032	-			45.541	21.928		40.647	18.853	-	
Fisher's	Power		---		Power-50%	---	P-value	0.0248		Power	---		Power-50%	---	P-value	0.0604	
Stouffer's	Power		---		Power-50%	0.037	P-value	0.0130		Power	---		Power-50%	---	P-value	0.0327	
14.1C/14.1	3	6	448.333	234.157	4	625.000	428.768	-	0.7876	6	3.212	1.293	4	9.995	7.953	-	0.7623
14.2C/14.2	3	4	3080.000	3076.667	6	486.667	386.149	+	0.4375	4	23.653	23.649	6	4.908	3.725	-	0.2135
62762C/50983	3	6	560.000	367.822	6	4540.000	2434.536	-	0.0663	6	2.660	1.478	6	37.083	21.260	-	0.0471
Habitat Means			1362.778	1226.215		1893.889	1083.151	-			9.842	8.807		17.329	10.946	-	
Fisher's	Power		0.000		Power-50%	0.042	P-value	0.1642		Power	0.000		Power-50%	0.025	P-value	0.1401	
Stouffer's	Power		---		Power-50%	0.174	P-value	0.0623		Power	---		Power-50%	---	P-value	0.0608	

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

Table D-80. Page 6. December 21, 1994

Table D-80. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, May 1991. (Continued.)

Site Pair	MVD	Balanus glandula - abundance (#/m ²)								Balanus glandula - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	706.667	458.139	5	282.000	274.525	+	0.9945	6	59.002	50.239	5	4.346	4.061	+	0.9133
14.2C/14.2	1	6	3260.000	2163.779	6	1440.000	630.571	+	0.7145	6	110.158	62.515	6	73.568	35.706	+	0.7155
62762C/50983	1	6	1870.000	1108.233	6	6433.333	2584.699	-	0.2483	6	243.325	173.680	6	811.958	340.272	-	0.0386
Habitat Means			1945.556	1243.384		2718.444	1163.265	+			137.495	95.478		296.624	126.680	+	
Fisher's		Power	0.062		Power-50%	0.037	P-value	0.7144	y	Power	0.048		Power-50%	0.029	P-value	0.7222	xy
Stouffer's		Power	0.000		Power-50%	0.063	P-value	0.8290		Power	0.087		Power-50%	0.000	P-value	0.9607	
14.1C/14.1	2	6	495.000	223.692	6	1040.000	572.183	-	0.8957	6	6.990	2.077	6	71.992	48.902	-	0.9849
14.2C/14.2	2	5	2496.000	835.886	6	1711.667	917.480	+	0.3080	5	72.438	33.535	6	41.397	24.742	+	0.3962
62762C/50983	2	6	2135.000	818.127	6	5913.333	2002.263	-	0.0997	6	97.218	46.545	6	524.413	235.060	-	0.0426
Habitat Means			1708.667	625.902		2888.333	1163.975	-			58.882	27.386		212.601	102.901	-	
Fisher's		Power	0.001		Power-50%	0.000	P-value	0.2426		Power	0.001		Power-50%	0.000	P-value	0.1446	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1050		Power	---		Power-50%	---	P-value	0.0527	
14.1C/14.1	3	6	33.333	11.155	4	137.500	124.189	-	0.7143	6	0.350	0.101	4	3.405	2.464	-	0.4453
14.2C/14.2	3	4	10.000	4.082	6	115.000	79.572	-	0.4413	4	0.338	0.194	6	2.750	2.125	-	0.6500
62762C/50983	3	6	343.333	212.645	6	1125.000	559.081	-	0.6788	6	3.123	1.921	6	38.502	18.694	-	0.3232
Habitat Means			128.889	75.961		459.167	254.281	-			1.270	0.739		14.886	7.761	-	
Fisher's		Power	0.000		Power-50%	0.003	P-value	0.2990		Power	0.000		Power-50%	0.000	P-value	0.1794	
Stouffer's		Power	0.002		Power-50%	0.006	P-value	0.2412		Power	0.000		Power-50%	0.000	P-value	0.1055	

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

Table D-80. Page 7. December 21, 1994

Site Pair	MVD	Semibalanus balanoides - abundance (#/m ²)								Semibalanus balanoides - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	6.667	4.944	5	462.000	271.614	-	0.7436	6	0.043	0.017	5	20.336	14.423	-	0.7137
14.2C/14.2	1	6	191.667	168.808	6	1571.667	1176.878	-	0.2898	6	7.608	6.676	6	91.230	65.554	-	0.1286
62762C/50983	1	6	2371.667	1759.279	6	1840.000	426.950	+	0.6809	6	56.743	45.995	6	113.010	41.168	-	0.3012
Habitat Means			856.667	644.344		1297.889	633.814	-			21.458	17.563		74.859	40.282	-	
Fisher's		Power	0.000		Power-50%	0.042	P-value	0.3472		Power	---		Power-50%	---	P-value	0.0790	
Stouffer's		Power	0.000		Power-50%	0.062	P-value	0.4897		Power	---		Power-50%	---	P-value	0.0692	
14.1C/14.1	2	6	5268.333	2271.960	6	6630.000	2934.946	-	0.6260	6	104.563	34.182	6	413.847	161.688	-	0.5134
14.2C/14.2	2	5	1292.000	1197.912	6	138.333	130.395	-	0.6936	5	67.440	66.031	6	9.147	8.862	+	0.4026
62762C/50983	2	6	4030.000	1765.916	6	5471.667	2070.722	-	0.6059	6	178.118	94.517	6	346.633	193.102	-	0.2636
Habitat Means			3530.111	1745.263		4080.000	1712.021	-			116.707	64.910		256.542	121.217	-	
Fisher's		Power	0.010		Power-50%	0.001	P-value	0.4738		Power	0.008		Power-50%	0.000	P-value	0.3008	
Stouffer's		Power	0.000		Power-50%	0.002	P-value	0.3091		Power	0.012		Power-50%	0.002	P-value	0.1659	
14.1C/14.1	3	6	523.333	483.561	4	130.000	130.000	+	0.4126	6	14.697	11.114	4	7.800	7.800	+	0.1914
14.2C/14.2	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000
62762C/50983	3	6	356.667	327.013	6	600.000	341.546	-	0.5696	6	6.730	6.543	6	60.017	49.098	-	0.1660
Habitat Means			293.333	270.191		243.333	157.182	+			7.142	5.886		22.606	18.966	-	
Fisher's		Power	0.000		Power-50%	0.005	P-value	0.5167		Power	0.028		Power-50%	0.003	P-value	0.3629	
Stouffer's		Power	0.007		Power-50%	0.019	P-value	0.6127		Power	0.025		Power-50%	0.048	P-value	0.1854	

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

Table D-80. Page 8. December 21, 1994

Table D-80. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Lacuna spp. - abundance (#/m ²)										Lacuna spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power		---		Power-50%	---	P-value	0.6552		
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power		---		Power-50%	---	P-value	0.5000		
14.1C/14.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
14.2C/14.2	2	5	0.000	0.000	6	10.000	10.000	-	0.4914	5	0.000	0.000	6	0.032	0.032	-	0.3632		
62762C/50983	2	6	16.667	14.757	6	15.000	15.000	+	0.9039	6	0.108	0.104	6	0.438	0.438	-	0.8778		
Habitat Means			5.556	4.919		8.333	8.333	-			0.036	0.035		0.157	0.157	-			
Fisher's	Power		0.293		Power-50%	0.004	P-value	0.4941		Power		0.174		Power-50%	0.001	P-value	0.3752		
Stouffer's	Power		0.344		Power-50%	0.000	P-value	0.4658		Power		0.280		Power-50%	0.021	P-value	0.3447		
14.1C/14.1	3	6	338.333	223.135	4	5.000	2.887	+	0.2779	6	2.063	1.361	4	0.043	0.027	+	0.3501		
14.2C/14.2	3	4	275.000	120.865	6	1283.333	667.541	-	0.7453	4	1.625	0.722	6	9.575	5.294	-	0.6196		
62762C/50983	3	6	231.667	158.165	6	318.333	162.037	-	1.0000	6	1.455	1.113	6	2.250	1.509	-	0.1660		
Habitat Means			281.667	167.388		535.555	277.488	-			1.714	1.065		3.956	2.277	-			
Fisher's	Power		0.014		Power-50%	0.018	P-value	0.7226		Power		0.015		Power-50%	0.017	P-value	0.2604		
Stouffer's	Power		0.012		Power-50%	0.041	P-value	0.5859		Power		0.039		Power-50%	0.094	P-value	0.1266		

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

y Direction of difference between Habitat Means is different than direction of overall tests.

z Only one site pair.

Littorina spp. - abundance (#/m ²)										Littorina spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	1536.667	1168.768	5	582.000	220.032	+	0.6077	6	12.657	7.981	5	29.610	15.780	-	0.2413		
14.2C/14.2	1	6	2415.000	2223.794	6	1950.000	1574.924	+	0.7928	6	11.163	8.900	6	17.470	13.409	-	0.6442		
62762C/50983	1	6	553.333	229.720	6	640.000	207.171	-	0.9609	6	8.247	3.019	6	27.490	5.642	-	0.1651		
Habitat Means			1501.667	1207.427		1057.333	667.376	-			10.689	6.633		24.857	11.610	-			
Fisher's	Power		0.041		Power-50%	0.105	P-value	0.4763		Power		---		Power-50%	---	P-value	0.0745		
Stouffer's	Power		0.051		Power-50%	0.400	P-value	0.4300		Power		---		Power-50%	---	P-value	0.0413		
14.1C/14.1	2	6	6000.000	2164.357	6	2086.667	841.921	+	0.2874	6	49.943	15.096	6	26.990	9.385	+	0.1289		
14.2C/14.2	2	5	2856.000	1176.650	6	1185.000	603.798	+	0.1440	5	11.336	2.904	6	13.785	6.784	-	0.5951		
62762C/50983	2	6	933.333	289.835	6	3156.667	1064.530	-	0.0319	6	10.753	2.527	6	106.913	30.518	-	0.0661		
Habitat Means			3263.111	1210.347		2142.778	836.750	+			24.011	6.842		49.229	15.562	-			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.1640*		Power		0.000		Power-50%	0.000	P-value	0.1535		
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.8932		Power		---		Power-50%	---	P-value	0.0807		
14.1C/14.1	3	6	1290.000	851.007	4	1955.000	872.931	-	0.4134	6	17.082	11.672	4	18.468	9.125	-	0.6710		
14.2C/14.2	3	4	417.500	238.445	6	36.667	7.601	+	0.6380	4	1.947	1.151	6	1.753	1.586	+	0.9594		
62762C/50983	3	6	246.667	189.766	6	955.000	493.084	-	0.3313	6	7.357	6.305	6	33.500	16.019	-	0.1823		
Habitat Means			651.389	426.406		982.222	457.872	-			8.795	6.376		17.907	8.910	-			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.2757		Power		0.000		Power-50%	0.000	P-value	0.2182		
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.1616		Power		---		Power-50%	---	P-value	0.0922		

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

Table D-80, Page 9. December 21, 1994

Table D-80. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, May 1991. (Continued.)

Littorina sitkana - abundance (#/m^2)										Littorina sitkana - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	1496.667	1129.409	5	438.000	144.201	+	0.3282	6	12.267	7.607	5	26.162	16.426	-	0.2246
14.2C/14.2	1	6	1055.000	942.991	6	1053.333	857.390	+	0.9990	6	7.057	5.409	6	6.105	5.045	+	0.9296
62762C/50983	1	6	521.667	213.954	6	406.667	166.867	+	0.9106	6	7.865	2.947	6	20.862	5.425	-	0.2333
Habitat Means			1024.445	762.118		632.667	389.486	+			9.063	5.321		17.710	8.965	-	
Fisher's		Power	0.041		Power-50%	0.100	P-value	0.3618		Power	0.000		Power-50%	0.159	P-value	0.1280	
Stouffer's		Power	0.048		Power-50%	0.376	P-value	0.3513		Power	---		Power-50%	---	P-value	0.0790	
14.1C/14.1	2	6	5331.667	1914.468	6	1290.000	510.829	+	0.1916	6	46.207	14.165	6	19.848	8.047	+	0.1727
14.2C/14.2	2	5	672.000	172.261	6	531.667	396.446	-	0.1191	5	5.776	1.805	6	8.180	4.998	-	0.9041
62762C/50983	2	6	883.333	277.929	6	1785.000	537.009	-	0.0924	6	10.238	2.395	6	80.528	27.061	-	0.0008
Habitat Means			2295.667	788.219		1202.222	481.428	-			20.740	6.122		36.185	13.369	-	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1078x		Power	---		Power-50%	---	P-value	0.0079	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.7652		Power	---		Power-50%	---	P-value	0.0033	
14.1C/14.1	3	6	1018.333	697.713	4	1242.500	520.294	-	0.6928	6	14.677	10.337	4	14.198	6.474	+	0.9649
14.2C/14.2	3	4	135.000	105.712	6	16.667	3.333	+	0.8346	4	0.448	0.246	6	1.645	1.605	-	0.9124
62762C/50983	3	6	245.000	188.109	6	416.667	140.870	-	0.7350	6	7.263	6.212	6	21.338	8.776	-	0.1564
Habitat Means			466.111	330.511		558.611	221.499	-			7.463	5.598		12.394	5.618	-	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.5181		Power	0.000		Power-50%	0.000	P-value	0.2393	
Stouffer's		Power	0.001		Power-50%	0.000	P-value	0.3585		Power	---		Power-50%	---	P-value	0.0941	

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

Table D-80, Page 11. December 21, 1994

Littorina scutulata - abundance (#/m^2)										Littorina scutulata - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	40.000	40.000	5	144.000	93.680	-	0.3832	6	0.390	0.390	5	3.448	2.266	-	0.6177
14.2C/14.2	1	6	1360.000	1281.372	6	896.667	721.464	+	0.3607	6	4.107	3.498	6	11.365	8.397	-	0.2191
62762C/50983	1	6	31.667	24.552	6	233.333	112.832	-	0.0431	6	0.382	0.278	6	6.628	3.233	-	0.2886
Habitat Means			477.222	448.641		424.667	309.325	-			1.626	1.389		7.147	4.632	-	
Fisher's	Power		---		Power-50%	---	P-value	0.0774 y		Power	0.005		Power-50%	0.123	P-value	0.1000	
Stouffer's	Power		---		Power-50%	0.272	P-value	0.0329		Power	---		Power-50%	---	P-value	0.0716	
14.1C/14.1	2	6	668.333	301.589	6	796.667	405.723	-	0.8944	6	3.737	1.737	6	7.142	2.554	-	0.6785
14.2C/14.2	2	5	2184.000	1009.889	6	653.333	254.436	-	0.3523	5	5.560	1.727	6	5.605	3.424	-	0.9957
62762C/50983	2	6	50.000	21.292	6	1371.667	628.423	-	0.0085	6	0.515	0.188	6	26.385	12.980	-	0.0035
Habitat Means			967.444	443.923		940.556	429.527	-			3.271	1.217		13.044	6.319	-	
Fisher's	Power		---		Power-50%	---	P-value	0.0443 y		Power	---		Power-50%	---	P-value	0.0125	
Stouffer's	Power		---		Power-50%	0.007	P-value	0.0146		Power	---		Power-50%	---	P-value	0.0026	
14.1C/14.1	3	6	271.667	154.130	4	712.500	501.604	-	0.3464	6	2.405	1.360	4	4.270	3.033	-	0.4659
14.2C/14.2	3	4	282.500	157.500	6	20.000	7.303	+	0.3479	4	1.500	0.905	6	0.109	0.087	-	0.2917
62762C/50983	3	6	1.667	1.667	6	538.333	364.659	-	0.1121	6	0.093	0.093	6	12.162	8.424	-	0.1655
Habitat Means			185.278	104.432		423.611	291.189	-			1.333	0.786		5.514	3.848	-	
Fisher's	Power		0.013		Power-50%	0.018	P-value	0.1401		Power	0.003		Power-50%	0.009	P-value	0.2229	
Stouffer's	Power		---		Power-50%	0.032	P-value	0.0728		Power	0.003		Power-50%	0.052	P-value	0.1197	

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

Table D-80, Page 12. December 21, 1994

Table D-80. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, May 1991. (Continued.)

Mytilus edulis - abundance (#/m^2)										Mytilus edulis - biomass (g/m^2)									
ite Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	3173.000	3137.010	3	200.000	230.033	+	0.0033	6	113.043	114.303	3	44.400	44.034	+	0.0007		
14.2C/14.2	1	6	10711.667	10709.665	6	138.333	126.476	+	0.8995	6	542.585	542.585	6	4.582	4.453	+	0.1790		
62762C/50983	1	6	3718.333	2675.240	6	830.000	452.828	+	0.8402	6	387.965	357.040	6	158.942	81.896	+	0.5623		
Habitat Means			6535.000	6181.307		416.111	276.721	+			348.132	337.531		69.330	43.481	+			
Fisher's		Power	0.142		Power-50%	0.042		P-value	0.5427	Power	0.043		Power-50%	0.014		P-value	0.1715		
Stouffer's		Power	0.165		Power-50%	0.154		P-value	0.3942	Power	0.223		Power-50%	0.028		P-value	0.1683		
14.1C/14.1	2	6	7038.333	2424.802	6	983.333	619.772	+	0.1093	6	233.173	81.364	6	57.060	53.870	+	0.1190		
14.2C/14.2	2	5	17310.000	9967.297	6	9373.333	3879.239	+	0.9114	5	154.518	75.041	6	280.513	121.339	-	0.4520		
62762C/50983	2	6	27966.666	15373.191	6	3303.333	1261.953	+	0.7797	6	752.227	346.683	6	905.430	467.960	-	0.5286		
Habitat Means			17438.333	9255.097		4553.333	1920.321	+			379.973	167.696		414.334	214.390	-			
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.1590	Power	0.000		Power-50%	0.000		P-value	0.4508		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.2284	Power	0.000		Power-50%	0.000		P-value	0.3617		
14.1C/14.1	3	6	11141.667	3554.412	4	4202.500	2515.874	+	0.2650	6	222.995	75.990	4	42.088	22.054	+	0.1682		
14.2C/14.2	3	4	7700.000	4383.015	6	3203.333	1826.906	+	0.6821	4	14.547	7.779	6	94.273	81.278	-	0.6548		
62762C/50983	3	6	18190.000	7247.437	6	1161.667	389.798	+	0.0042	6	291.590	193.128	6	59.027	43.868	+	0.3612		
Habitat Means			12343.889	5061.621		2855.833	1577.526	+			176.377	92.299		65.129	49.067	+			
Fisher's		Power	---		Power-50%	---		P-value	0.0050	Power	0.000		Power-50%	0.000		P-value	0.1644		
Stouffer's		Power	---		Power-50%	0.000		P-value	0.0011	Power	0.000		Power-50%	0.000		P-value	0.1354		

x At least one site pair p-value < 0.05 in opposite direction of overall tests.

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

z Only one site pair.

Table D-80. Page 13. December 21, 1994

Turtonia minuta - abundance (#/m^2)										Turtonia minuta - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	565.000	565.000	5	2.000	2.000	-	0.5882	6	0.887	0.887	5	0.000	0.000	+	0.3893		
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	1.667	1.667	6	0.000	0.000	-	0.3632	6	0.003	0.003	6	0.000	0.000	+	0.3632		
Habitat Means			188.889	188.889		0.667	0.667	-			0.297	0.297		0.000	0.000	+			
Fisher's		Power	---		Power-50%	---		P-value	0.2987	Power	---		Power-50%	---		P-value	0.2329		
Stouffer's		Power	---		Power-50%	---		P-value	0.1620	Power	---		Power-50%	---		P-value	0.1406		
14.1C/14.1	2	6	1763.333	1061.228	6	10.000	6.325	+	0.0313	6	2.013	0.963	6	0.008	0.008	+	0.0109		
14.2C/14.2	2	5	0.000	0.000	6	221.667	221.667	-	0.4772	5	0.000	0.000	6	0.262	0.262	-	0.4770		
62762C/50983	2	6	925.000	925.000	6	26.667	14.981	+	0.7657	6	1.013	1.013	6	0.030	0.030	+	0.9461		
Habitat Means			896.111	662.076		86.111	80.991	+			1.009	0.659		0.100	0.097	+			
Fisher's		Power	---		Power-50%	---		P-value	0.0954	Power	---		Power-50%	---		P-value	0.0523		
Stouffer's		Power	0.605		Power-50%	0.241		P-value	0.2470	Power	0.006		Power-50%	0.428		P-value	0.2792		
14.1C/14.1	3	6	991.667	516.162	4	157.500	87.214	+	0.1860	6	1.297	0.917	4	0.150	0.093	+	0.3405		
14.2C/14.2	3	4	1302.500	1033.057	6	8.333	4.773	+	0.1574	4	1.213	0.976	6	0.012	0.012	-	0.1329		
62762C/50983	3	6	170.000	96.194	6	45.000	29.069	+	0.4800	6	0.303	0.180	6	0.082	0.055	-	0.2787		
Habitat Means			821.389	548.471		70.278	40.352	+			0.938	0.691		0.081	0.053	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0483	Power	---		Power-50%	---		P-value	0.0446		
Stouffer's		Power	---		Power-50%	0.115		P-value	0.0768	Power	---		Power-50%	---		P-value	0.0453		

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

Table D-80, Page 11, December 21, 1994

Table D-80. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Pagurus spp. - abundance (#/m ²)										Pagurus spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
14.1C/14.1	2	6	3.333	3.333	6	16.667	14.757	-	0.4960	6	0.260	0.260	6	0.672	0.612	-	0.5831		
14.2C/14.2	2	5	0.000	0.000	6	150.000	150.000	-	0.2565	5	0.000	0.000	6	1.598	1.598	-	0.3632		
62762C/50983	2	6	0.000	0.000	6	28.333	9.458	-	0.0052	6	0.000	0.000	6	2.768	1.468	-	0.0101		
Habitat Means			1.111	1.111		65.000	58.072	-			0.087	0.087		1.679	1.226	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0045		Power	---		Power-50%	---	P-value	0.0115			
Stouffer's	Power		---		Power-50%	---	P-value	0.0011		Power	---		Power-50%	---	P-value	0.0028			
14.1C/14.1	3	6	90.000	76.114	4	10.000	4.082	+	0.4581	6	1.225	0.702	4	0.588	0.539	+	0.6927		
14.2C/14.2	3	4	12.500	7.500	6	18.333	7.923	-	0.9566	4	0.695	0.662	6	0.863	0.835	-	0.9168		
62762C/50983	3	6	0.000	0.000	6	173.333	132.581	-	0.0796	6	0.000	0.000	6	3.562	1.953	-	0.0192		
Habitat Means			34.167	27.871		67.222	48.195	-			0.640	0.455		1.671	1.109	-			
Fisher's	Power		0.011		Power-50%	0.045	P-value	0.2074		Power	---		Power-50%	---	P-value	0.0689			
Stouffer's	Power		---		Power-50%	0.056	P-value	0.0795		Power	---		Power-50%	---	P-value	0.0197			

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

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

x Only one site pair.

Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	0.000	0.000	5	2.000	2.000	-	0.3739	6	0.000	0.000	5	2.896	2.896	-	0.3739		
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.667	0.667	-			0.000	0.000		0.965	0.965	-			
Fisher's	Power		---		Power-50%	---	P-value	0.4092		Power	---		Power-50%	---	P-value	0.4092			
Stouffer's	Power		---		Power-50%	---	P-value	0.3999		Power	---		Power-50%	---	P-value	0.3999			
14.1C/14.1	2	6	3.333	3.333	6	1.667	1.667	+	0.8648	6	0.832	0.832	6	2.472	2.472	-	0.9235		
14.2C/14.2	2	5	0.000	0.000	6	1.667	1.667	-	0.5485	5	0.000	0.000	6	0.332	0.332	-	0.5245		
62762C/50983	2	6	0.000	0.000	6	15.000	15.000	-	0.2406	6	0.000	0.000	6	27.213	27.213	-	0.2945		
Habitat Means			1.111	1.111		6.111	6.111	-			0.277	0.277		10.006	10.006	-			
Fisher's	Power		---		Power-50%	---	P-value	0.2414		Power	---		Power-50%	---	P-value	0.2342			
Stouffer's	Power		---		Power-50%	---	P-value	0.1158		Power	---		Power-50%	---	P-value	0.1214			
14.1C/14.1	3	6	0.000	0.000	4	2.500	2.500	-	0.6907	6	0.000	0.000	4	0.070	0.070	-	0.3910		
14.2C/14.2	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	3	6	3.333	3.333	6	10.000	8.165	-	0.2410	6	7.767	7.767	6	25.395	16.257	-	0.5257		
Habitat Means			1.111	1.111		4.167	3.555	-			2.589	2.589		8.488	5.442	-			
Fisher's	Power		0.047		Power-50%	---	P-value	0.2574		Power	0.473		Power-50%	---	P-value	0.2920			
Stouffer's	Power		0.049		Power-50%	---	P-value	0.1177		Power	0.472		Power-50%	---	P-value	0.2047			

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

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

Table D-80, Page 15. December 21, 1994

Table D-80. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, May 1991. (Continued.)

Nucella lima - abundance (#/m ²)										Nucella lima - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	0.000	0.000	5	2.000	2.000	-	0.3739	6	0.000	0.000	5	2.896	2.896	-	0.3739		
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.667	0.667	-			0.000	0.000		0.965	0.965	-			
Fisher's	Power		---		Power-50%	---		P-value	0.4092	Power	---		Power-50%	---		P-value	0.4092		
Stouffer's	Power		---		Power-50%	---		P-value	0.3999	Power	---		Power-50%	---		P-value	0.3999		
14.1C/14.1	2	6	3.333	3.333	6	1.667	1.667	+	0.8708	6	0.832	0.832	6	2.472	2.472	-	0.9167		
14.2C/14.2	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	2	6	0.000	0.000	6	15.000	15.000	-	0.3632	6	0.000	0.000	6	27.213	27.213	-	0.2543		
Habitat Means			1.111	1.111		5.556	5.556	-			0.277	0.277		9.895	9.895	-			
Fisher's	Power		---		Power-50%	---		P-value	0.4298	Power	---		Power-50%	---		P-value	0.3143		
Stouffer's	Power		---		Power-50%	---		P-value	0.2160	Power	---		Power-50%	---		P-value	0.1416		
14.1C/14.1	3	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
14.2C/14.2	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	3	6	0.000	0.000	6	5.000	5.000	-	0.3632	6	0.000	0.000	6	10.157	10.157	-	0.3632		
Habitat Means			0.000	0.000		1.667	1.667	-			0.000	0.000		3.386	3.386	-			
Fisher's	Power		---		Power-50%	---		P-value	0.4028	Power	---		Power-50%	---		P-value	0.4028		
Stouffer's	Power		---		Power-50%	---		P-value	0.2027	Power	---		Power-50%	---		P-value	0.2027		

* At least one site pair p-value < 0.000 in opposite direction of overall tests.

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

‡ Only one site pair.

Table D-82, Page 17, December 21, 1994

Nucella lamellosa - abundance (#/m ²)										Nucella lamellosa - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552		
Stouffer's	Power		---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000		
14.1C/14.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
14.2C/14.2	2	5	0.000	0.000	6	1.667	1.667	-	0.3632	5	0.000	0.000	6	0.332	0.332	-	0.3632		
62762C/50983	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.111	0.111	-			
Fisher's	Power		---		Power-50%	---		P-value	0.4028	Power	---		Power-50%	---		P-value	0.4028		
Stouffer's	Power		---		Power-50%	---		P-value	0.3977	Power	---		Power-50%	---		P-value	0.3977		
14.1C/14.1	3	6	0.000	0.000	4	2.500	2.500	-	0.3910	6	0.000	0.000	4	0.070	0.070	-	0.4672		
14.2C/14.2	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	3	6	3.333	3.333	6	1.667	1.667	+	0.8708	6	0.000	0.000	6	14.322	14.322	-	0.3632		
Habitat Means			1.111	1.111		1.389	1.389	-			0.000	0.000		4.797	4.797	-			
Fisher's	Power		---		Power-50%	---		P-value	0.4467	Power	---		Power-50%	---		P-value	0.2604		
Stouffer's	Power		---		Power-50%	---		P-value	0.4617	Power	---		Power-50%	---		P-value	0.1493		

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

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

Table D-80, Page 17, December 21, 1994

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

Table D-80. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Sheltered Rocky. May 1991. (Continued.)

Amphipoda - abundance (#/m^2)										Amphipoda - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
14.1C/14.1	1	6	5.000	5.000	5	0.000	0.000	-	0.3632	6	0.020	0.020	5	0.000	0.000	-	0.2886		
14.2C/14.2	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62762C/50983	1	6	1.667	1.667	6	3.333	2.108	-	0.5490	6	0.017	0.017	6	0.015	0.015	+	0.9291		
Habitat Means			2.222	2.222		1.111	0.703	+			0.012	0.012		0.005	0.005	+			
Fisher's	Power		0.566		Power-50%	---	P-value	0.4887		Power	0.046		Power-50%	---	P-value	0.3406			
Stouffer's	Power		0.467		Power-50%	---	P-value	0.6136		Power	0.091		Power-50%	---	P-value	0.3505			
14.1C/14.1	2	6	80.000	43.818	6	23.333	18.012	+	0.1136	6	0.777	0.473	6	0.167	0.131	+	0.0636		
14.2C/14.2	2	5	12.000	12.000	6	43.333	30.185	-	0.3586	5	0.088	0.088	6	0.248	0.144	-	0.6325		
62762C/50983	2	6	148.333	144.370	6	16.667	13.081	+	0.7579	6	0.167	0.105	6	0.140	0.110	+	0.9334		
Habitat Means			80.111	66.729		27.778	20.426	+			0.344	0.222		0.185	0.128	-			
Fisher's	Power		0.060		Power-50%	0.089	P-value	0.2329		Power	0.079		Power-50%	0.485	P-value	0.1636			
Stouffer's	Power		0.043		Power-50%	0.184	P-value	0.3187		Power	0.047		Power-50%	0.497	P-value	0.3195			
14.1C/14.1	3	6	456.667	235.084	4	210.000	109.163	+	0.3791	6	9.170	5.302	4	2.315	1.358	-	0.0982		
14.2C/14.2	3	4	507.500	444.642	6	260.000	113.637	-	0.3775	4	4.015	2.263	6	2.510	0.865	-	0.7096		
62762C/50983	3	6	101.667	57.528	6	176.667	52.068	-	0.7634	6	1.807	1.125	6	2.138	0.565	-	0.9268		
Habitat Means			355.278	245.751		215.556	91.623	-			4.997	2.897		2.321	0.929	+			
Fisher's	Power		0.001		Power-50%	0.001	P-value	0.2671		Power	0.000		Power-50%	0.000	P-value	0.1551			
Stouffer's	Power		0.000		Power-50%	0.001	P-value	0.4100		Power	0.000		Power-50%	0.007	P-value	0.3107			

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

Table D-80. Page 19. December 21, 1994

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	38.333	38.333	5	0.000	0.000	+	0.3632	6	0.022	0.022	5	0.000	0.000	-	0.2634
14.2C/14.2	1	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.008	0.008	6	0.000	0.000	-	0.3426
62762C/50983	1	6	3.333	2.108	6	0.000	0.000	+	0.1747	6	0.003	0.003	6	0.000	0.000	-	0.4042
Habitat Means			15.000	14.591		0.000	0.000	+			0.011	0.011		0.000	0.000	-	
Fisher's	Power	---			Power-50%	---	P-value	0.0690		Power	---			Power-50%	---	P-value	0.0954
Stouffer's	Power	---			Power-50%	0.968	P-value	0.0391		Power	---			Power-50%	---	P-value	0.0881
14.1C/14.1	2	6	153.333	135.688	6	18.333	10.138	+	0.6311	6	0.125	0.119	6	0.022	0.010	-	0.9447
14.2C/14.2	2	5	416.000	413.505	6	138.333	106.471	-	0.9687	5	0.250	0.243	6	0.122	0.096	+	0.8956
62762C/50983	2	6	13.333	8.028	6	38.333	27.008	-	0.6294	6	0.008	0.008	6	0.570	0.462	-	0.2823
Habitat Means			194.222	185.740		65.000	47.872	-			0.128	0.123		0.238	0.189	+	
Fisher's	Power	0.034			Power-50%	0.137	P-value	0.6160		Power	0.013			Power-50%	0.146	P-value	0.7557
Stouffer's	Power	0.059			Power-50%	0.288	P-value	0.6184		Power	0.032			Power-50%	0.165	P-value	0.8230
14.1C/14.1	3	6	1301.667	634.993	4	97.500	39.025	+	0.0793	6	1.473	0.665	4	0.108	0.035	+	0.0164
14.2C/14.2	3	4	145.000	79.635	6	11.667	6.540	+	0.0180	4	0.188	0.073	6	0.095	0.057	+	0.1294
62762C/50983	3	6	351.667	212.907	6	70.000	30.984	+	0.0885	6	0.602	0.367	6	0.275	0.152	+	0.7091
Habitat Means			599.445	309.178		59.722	25.516	+			0.754	0.368		0.159	0.081	-	
Fisher's	Power	---			Power-50%	---	P-value	0.0012		Power	---			Power-50%	---	P-value	0.0087
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0031		Power	---			Power-50%	---	P-value	0.0724

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

Table D-80. Page 20. December 21, 1994

Table D-80. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, May 1991. (Continued.)

Errant polychaetes - abundance (#/m²)										Errant polychaetes - biomass (g/m²)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
14.1C/14.1	1	6	50.000	50.000	5	0.000	0.000	+	0.3103	6	0.120	0.120	5	0.000	0.000	-	0.3579	
14.2C/14.2	1	6	51.667	51.667	6	0.000	0.000	+	0.2850	6	0.093	0.093	6	0.000	0.000	-	0.3537	
62762C/50983	1	6	1.667	1.667	6	3.333	3.333	-	0.9032	6	0.013	0.013	6	0.033	0.033	-	0.8933	
Habitat Means			34.445	34.445		1.111	1.111	+			0.075	0.075		0.011	0.011	-		
Fisher's	Power		---		Power-50%		---	P-value	0.1837	Power		---		Power-50%		---	P-value	0.2316
Stouffer's	Power		---		Power-50%		---	P-value	0.3144	Power		---		Power-50%		---	P-value	0.3430
14.1C/14.1	2	6	205.000	131.903	6	3.333	3.333	+	0.0175	6	0.422	0.199	6	0.033	0.033	-	0.0274	
14.2C/14.2	2	5	248.000	159.731	6	135.000	49.312	+	0.4910	5	1.202	0.935	6	0.695	0.398	-	0.3278	
62762C/50983	2	6	61.667	40.695	6	113.333	40.469	-	0.0564	6	0.095	0.065	6	0.080	0.026	-	0.2538	
Habitat Means			171.556	110.776		83.889	31.038	+			0.573	0.400		0.269	0.152	-		
Fisher's	Power		---		Power-50%		---	P-value	0.0547x	Power		---		Power-50%		---	P-value	0.0121
Stouffer's	Power		0.152		Power-50%		0.270	P-value	0.8084	Power		---		Power-50%		---	P-value	0.0254
14.1C/14.1	3	6	288.333	126.976	4	82.500	45.529	+	0.7757	6	0.628	0.305	4	0.178	0.145	-	0.7329	
14.2C/14.2	3	4	55.000	29.580	6	26.667	13.581	+	0.7061	4	0.065	0.039	6	0.129	0.113	-	0.8117	
62762C/50983	3	6	185.000	118.905	6	55.000	27.417	+	0.4145	6	0.250	0.207	6	0.111	0.074	-	0.5100	
Habitat Means			176.111	91.820		54.722	28.842	+			0.314	0.184		0.139	0.111	-		
Fisher's	Power		0.019		Power-50%		0.086	P-value	0.3095	Power		0.008		Power-50%		0.036	P-value	0.4480
Stouffer's	Power		0.045		Power-50%		0.271	P-value	0.1749	Power		0.036		Power-50%		0.059	P-value	0.2637

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

Table D 80, Page 21, December 21, 1994

Sedentary polychaetes - abundance (#/m^2)										Sedentary polychaetes - biomass (g/m^2)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
14.1C/14.1	1	6	143.333	143.333	5	0.000	0.000	+	0.3632	6	0.001	0.001	5	0.000	0.000	-	0.3632	
14.2C/14.2	1	6	56.667	56.667	6	0.000	0.000	+	0.3632	6	0.030	0.030	6	0.000	0.000	-	0.3632	
62762C/50983	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			66.667	66.667		0.000	0.000	+			0.010	0.010		0.000	0.000	-		
Fisher's	Power		---		Power-50%	---		P-value	0.2231	Power		---		Power-50%	---		P-value	0.2231
Stouffer's	Power		---		Power-50%	---		P-value	0.3020	Power		---		Power-50%	---		P-value	0.3020
14.1C/14.1	2	6	346.667	317.045	6	0.000	0.000	+	0.1382	6	0.009	0.008	6	0.000	0.000	-	0.4116	
14.2C/14.2	2	5	2.000	2.000	6	195.000	195.000	-	0.4249	5	0.000	0.000	6	0.087	0.087	-	0.3699	
62762C/50983	2	6	116.667	76.623	6	116.667	74.147	o	1.0000	6	0.005	0.005	6	0.110	0.102	-	0.1701	
Habitat Means			155.111	131.889		103.889	89.716	+			0.005	0.004		0.066	0.063	-		
Fisher's	Power		0.053		Power-50%	0.289		P-value	0.3020	Power		0.031		Power-50%	0.104		P-value	0.1872
Stouffer's	Power		0.003		Power-50%	0.363		P-value	0.4225	Power		0.006		Power-50%	0.125		P-value	0.1008
14.1C/14.1	3	6	2253.333	1837.305	4	90.000	77.244	+	0.0779	6	0.025	0.016	4	0.078	0.068	-	0.7429	
14.2C/14.2	3	4	0.000	0.000	6	20.000	13.663	-	0.4171	4	0.000	0.000	6	0.001	0.001	-	0.1747	
62762C/50983	3	6	3153.333	1749.342	6	198.333	99.947	+	0.0376	6	0.160	0.062	6	0.095	0.063	-	0.3994	
Habitat Means			1802.222	1195.549		102.778	63.618	+			0.062	0.026		0.058	0.044	-		
Fisher's	Power		---		Power-50%	---		P-value	0.0210	Power		0.586		Power-50%	0.000		P-value	0.2938 y
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0148	Power		0.822		Power-50%	0.000		P-value	0.6142

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

Table D 80, Page 22, December 21, 1994

Table D-80. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Sheltered Rocky, May 1991. (Continued.)

Site Pair	MVD	Oligochaeta - abundance (#/m ²)								Oligochaeta - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	686.667	682.674	5	16.000	16.000	+	0.5217	6	0.102	0.102	5	0.010	0.010	+	0.3643
14.2C/14.2	1	6	388.333	388.333	6	18.333	18.333	+	0.7363	6	0.120	0.120	6	0.023	0.023	+	0.3169
62762C/50983	1	6	91.667	76.263	6	18.333	12.758	+	0.7009	6	0.027	0.027	6	0.008	0.008	+	0.8482
Habitat Means			388.889	382.423		17.555	15.697	+			0.083	0.083		0.014	0.014	-	
Fisher's		Power	0.145		Power-50%	0.078		P-value	0.3414	Power	0.015		Power-50%	0.032		P-value	0.1848
Stouffer's		Power	0.273		Power-50%	0.180		P-value	0.2645	Power	0.046		Power-50%	0.042		P-value	0.2361
14.1C/14.1	2	6	1815.000	585.780	6	308.333	288.795	+	0.0247	6	0.289	0.139	6	0.215	0.209	+	0.8373
14.2C/14.2	2	5	114.000	82.922	6	843.333	526.907	-	0.4412	5	0.000	0.000	6	0.300	0.188	-	0.4269
62762C/50983	2	6	4125.000	2410.788	6	743.333	598.056	-	0.9838	6	0.730	0.366	6	0.439	0.364	-	0.4179
Habitat Means			2018.000	1026.497		631.666	471.253	-			0.340	0.168		0.318	0.254	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0979	Power	0.000		Power-50%	0.010		P-value	0.4994
Stouffer's		Power	0.046		Power-50%	0.202		P-value	0.3301	Power	0.008		Power-50%	0.024		P-value	0.2833
14.1C/14.1	3	6	3006.667	1559.465	4	1127.500	774.181	+	0.3216	6	0.722	0.423	4	0.693	0.385	+	0.7858
14.2C/14.2	3	4	82.500	54.524	6	56.667	31.482	-	0.8852	4	0.013	0.012	6	0.017	0.017	-	0.9091
62762C/50983	3	6	1661.667	700.578	6	438.333	245.580	-	0.0686	6	0.293	0.110	6	0.060	0.043	-	0.3994
Habitat Means			1583.611	771.522		540.833	350.414	+			0.343	0.182		0.257	0.148	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0613	Power	0.000		Power-50%	0.003		P-value	0.3902
Stouffer's		Power	---		Power-50%	0.001		P-value	0.0233	Power	0.000		Power-50%	0.000		P-value	0.2073

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

Table D-80. Page 23. December 21, 1994

Site Pair	MVD	Total Invertebrates - abundance (#/m ²)								Total Invertebrates - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
14.1C/14.1	1	6	10415.000	9450.816	5	1858.000	928.253	+	0.5140	6	1309.990	1241.669	5	111.192	61.272	-	0.2237
14.2C/14.2	1	6	22766.666	17035.979	6	8298.333	4802.033	+	0.2509	6	845.650	738.297	6	228.970	118.862	-	0.5076
62762C/50983	1	6	10390.000	5176.177	6	10985.000	3408.371	-	0.9619	6	715.164	435.885	6	1129.106	396.586	-	0.6559
Habitat Means			14523.889	10560.991		7047.111	3046.219	+			956.935	805.284		489.756	192.240	-	
Fisher's		Power	0.006		Power-50%	0.009		P-value	0.2252	Power	0.004		Power-50%	0.007		P-value	0.2441
Stouffer's		Power	0.014		Power-50%	0.031		P-value	0.3192	Power	0.010		Power-50%	0.000		P-value	0.4488
14.1C/14.1	2	6	26018.334	6608.597	6	12890.000	4219.168	+	0.4072	6	1764.934	1046.015	6	621.582	211.051	-	0.1958
14.2C/14.2	2	5	41148.000	17483.959	6	21133.334	6031.282	-	0.2314	5	538.531	145.967	6	821.334	400.682	-	0.7571
62762C/50983	2	6	43931.668	16848.143	6	34663.332	11009.541	-	0.5573	6	1908.013	847.868	6	2041.628	360.876	-	0.8781
Habitat Means			37032.667	13646.900		22895.555	7086.664	-			1403.826	679.950		1161.515	324.203	-	
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.1225	Power	0.000		Power-50%	0.000		P-value	0.7044
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.1326	Power	0.000		Power-50%	0.000		P-value	0.5560
14.1C/14.1	3	6	29288.334	7662.847	4	12805.000	4292.508	-	0.2741	6	4048.159	1275.349	4	598.301	349.035	-	0.0377
14.2C/14.2	3	4	15030.000	7510.646	6	7306.667	2036.401	+	0.8069	4	104.874	34.421	6	217.630	79.610	-	0.4495
62762C/50983	3	6	30361.666	8891.565	6	11030.000	3087.709	-	0.1307	6	4629.794	2249.409	6	296.039	119.899	-	0.0074
Habitat Means			24893.333	8021.686		10380.556	3138.873	-			2927.609	1186.393		370.657	182.848	+	
Fisher's		Power	---		Power-50%	---		P-value	0.0811	Power	---		Power-50%	---		P-value	0.0032
Stouffer's		Power	---		Power-50%	0.000		P-value	0.0388	Power	---		Power-50%	---		P-value	0.0023

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

Table D-80. Page 24. December 21, 1994

Table D-81. Invertebrate Abundance and Biomass. 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; SE = standard error; D direction of difference; - = 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.

Lottidae - abundance (#/m^2)										Lottidae - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	1.667	1.667	6	11.667	9.804	-	0.4252	6	0.162	0.162	6	3.750	3.412	-	0.4410
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	5.000	3.416	-	0.1784	6	0.000	0.000	6	0.615	0.525	-	0.1794
Habitat Means			0.556	0.556		5.556	4.407	-			0.054	0.054		1.455	1.312	-	
Fisher's	Power		0.259		Power-50%			P-value	0.1565	Power	0.175		Power-50%			P-value	0.1609
Stouffer's	Power		---		Power-50%			P-value	0.0934	Power	---		Power-50%			P-value	0.0963
50389C/50389	2	6	0.000	0.000	6	26.667	26.667	-	0.3632	6	0.000	0.000	6	2.765	2.765	-	0.3632
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	1.667	1.667	6	26.667	15.420	-	0.0588	6	0.530	0.530	6	3.115	1.550	-	0.1005
Habitat Means			0.556	0.556		17.778	14.029	-			0.177	0.177		1.960	1.438	-	
Fisher's	Power		---		Power-50%			P-value	0.0654	Power	---		Power-50%			P-value	0.0954
Stouffer's	Power		---		Power-50%			P-value	0.0414	Power	---		Power-50%			P-value	0.0576
50389C/50389	3	6	6.667	6.667	6	20.000	12.910	-	0.4986	6	0.608	0.608	6	3.157	2.247	-	0.4983
51091C/51091	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	6	51.667	27.978	-	0.0136	6	0.000	0.000	6	7.690	5.463	-	0.0067
Habitat Means			2.222	2.222		23.889	13.629	-			0.203	0.203		3.616	2.570	-	
Fisher's	Power		---		Power-50%			P-value	0.0280	Power	---		Power-50%			P-value	0.0163
Stouffer's	Power		---		Power-50%			P-value	0.0240	Power	---		Power-50%			P-value	0.0163

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-81, Page 1. December 21, 1994

Lottia pelta - abundance (#/m^2)										Lottia Pelta - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power	---		Power-50%		---	P-value	0.6552
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power	---		Power-50%		---	P-value	0.5000
50389C/50389	2	6	0.000	0.000	6	5.000	5.000	-	0.3632	6	0.000	0.000	6	0.273	0.273	-	0.3632
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.282	0.282	-	0.3632
Habitat Means			0.000	0.000		2.222	2.222	-			0.000	0.000		0.185	0.185	-	
Fisher's	Power		---		Power-50%		---	P-value	0.2231	Power	---		Power-50%		---	P-value	0.2231
Stouffer's	Power		---		Power-50%		---	P-value	0.1356	Power	---		Power-50%		---	P-value	0.1356
50389C/50389	3	6	3.333	3.333	6	16.667	10.853	-	0.4305	6	0.378	0.378	6	2.653	1.915	-	0.4799
51091C/51091	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	6	16.667	16.667	-	0.3632	6	0.000	0.000	6	1.255	1.255	-	0.3632
Habitat Means			1.111	1.111		11.111	9.173	-			0.126	0.126		1.303	1.057	-	
Fisher's	Power		0.902		Power-50%		---	P-value	0.2478	Power	0.707		Power-50%		---	P-value	0.2647
Stouffer's	Power		0.912		Power-50%		---	P-value	0.1510	Power	0.797		Power-50%		---	P-value	0.1621

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

Table D-81, Page 2. December 21, 1994

Table D-81. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Tectura persona - abundance (#/m ²)								Tectura persona - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	1.667	1.667	6	11.667	9.804	-	0.4252	6	0.162	0.162	6	3.750	3.412	-	0.4410
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.535	0.535	-	0.3632
Habitat Means			0.556	0.556		5.000	4.379	-			0.054	0.054		1.428	1.316	-	
Fisher's	Power		0.233		Power-50%	---	P-value	0.2459		Power	0.186		Power-50%	---	P-value	0.2514	
Stouffer's	Power		0.354		Power-50%	---	P-value	0.1498		Power	0.347		Power-50%	---	P-value	0.1534	
50389C/50389	2	6	0.000	0.000	6	18.333	18.333	-	0.3632	6	0.000	0.000	6	1.988	1.988	-	0.3632
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	1.667	1.667	6	15.000	6.708	-	0.0677	6	0.530	0.530	6	2.013	1.215	-	0.1158
Habitat Means			0.556	0.556		11.111	8.347	-			0.177	0.177		1.334	1.068	-	
Fisher's	Power		---		Power-50%	---	P-value	0.0723		Power	0.033		Power-50%	---	P-value	0.1052	
Stouffer's	Power		---		Power-50%	---	P-value	0.0451		Power	---		Power-50%	---	P-value	0.0630	
50389C/50389	3	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.182	0.182	-	0.3632
51091C/51091	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	6	20.000	18.074	-	0.2018	6	0.000	0.000	6	4.890	4.745	-	0.1871
Habitat Means			0.000	0.000		7.222	6.580	-			0.000	0.000		1.691	1.642	-	
Fisher's	Power		0.366		Power-50%	---	P-value	0.1530		Power	0.123		Power-50%	---	P-value	0.1456	
Stouffer's	Power		---		Power-50%	---	P-value	0.0905		Power	---		Power-50%	---	P-value	0.0860	

z Only one site pair.

Table D-81. Page 3. December 21, 1994

Site Pair	MVD	Tectura scutum - abundance (#/m ²)								Tectura scutum - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
50389C/50389	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.155	0.155	-	0.3632
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.052	0.052	-	
Fisher's	Power		---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028	
Stouffer's	Power		---		Power-50%	---	P-value	0.2781		Power	---		Power-50%	---	P-value	0.2781	

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z Only one site pair.

Table D-81. Page 4. December 21, 1994

Table D-81. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Balanomorphs - abundance (#/m ²)								Balanomorphs - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	646.667	644.669	6	518.333	403.050	+	0.3233	6	109.012	108.992	6	55.207	35.995	+	0.2391
51091C/51091	1	6	6.667	6.667	6	0.000	0.000	+	0.3632	6	0.025	0.025	6	0.000	0.000	+	0.3632
62802C/50226	1	6	91.667	34.968	6	891.667	885.680	-	0.1776	6	5.645	3.055	6	36.822	36.790	-	0.0436
Habitat Means			248.334	228.768		470.000	429.577	+			38.227	37.357		30.676	24.262	+	
Fisher's		Power	0.015		Power-50%	0.011	P-value	0.2990	y	Power	0.004		Power-50%	0.005	P-value	0.2606	x
Stouffer's		Power	0.000		Power-50%	0.008	P-value	0.4402		Power	0.000		Power-50%	0.005	P-value	0.5700	
50389C/50389	2	6	0.000	0.000	6	148.333	60.521	-	0.0058	6	0.000	0.000	6	11.443	5.557	-	0.0044
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	1816.667	541.502	6	136.667	91.821	-	0.0027	6	62.633	16.227	6	14.253	10.637	-	0.0211
Habitat Means			605.556	180.501		95.000	50.781	-			20.878	5.409		8.565	5.398	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0235	x	Power	---		Power-50%	---	P-value	0.0338	y
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.3485		Power	0.444		Power-50%	0.000	P-value	0.4563	
50389C/50389	3	6	63.333	47.656	6	458.333	173.367	-	0.0153	6	1.648	1.528	6	86.478	64.485	-	0.0105
51091C/51091	3	6	0.000	0.000	6	80.000	80.000	-	0.3924	6	0.000	0.000	6	10.596	10.596	-	0.3494
62802C/50226	3	6	3103.333	1194.157	6	1478.333	565.552	+	0.2321	6	92.308	22.998	6	217.185	83.168	-	0.5950
Habitat Means			1055.555	413.938		672.222	272.973	-			31.319	8.175		104.753	52.750	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0392	y	Power	---		Power-50%	---	P-value	0.0117	
Stouffer's		Power	0.189		Power-50%	0.006	P-value	0.1513		Power	---		Power-50%	---	P-value	0.0118	

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

Table D-81, Page 5, December 21, 1994

Site Pair	MVD	Chthamalus dalli - abundance (#/m ²)								Chthamalus dalli - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	26.667	24.721	6	1.667	1.667	+	0.3949	6	0.227	0.207	6	0.005	0.005	+	0.3463
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	391.667	391.667	-	0.3632	6	0.000	0.000	6	2.742	2.742	-	0.3632
Habitat Means			8.889	8.240		131.111	131.111	-			0.076	0.069		0.916	0.916	+	
Fisher's		Power	0.034		Power-50%	0.002	P-value	0.5137		Power	0.003		Power-50%	0.002	P-value	0.5067	y
Stouffer's		Power	0.062		Power-50%	0.000	P-value	0.4563		Power	0.000		Power-50%	0.000	P-value	0.5234	
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
50389C/50389	3	6	28.333	17.966	6	35.000	35.000	-	0.6572	6	0.188	0.120	6	0.283	0.283	-	0.6428
51091C/51091	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.010	0.010	-	0.3632
Habitat Means			9.444	5.989		12.222	12.222	-			0.063	0.040		0.098	0.098	-	
Fisher's		Power	0.992		Power-50%	0.188	P-value	0.3186		Power	0.995		Power-50%	0.190	P-value	0.3146	
Stouffer's		Power	0.996		Power-50%	0.128	P-value	0.2010		Power	0.997		Power-50%	0.126	P-value	0.2979	

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

Table D-81, Page 6, December 21, 1994

Table D-81. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Balanus glandula - abundance (#/m^2)										Balanus glandula - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	568.333	568.333	6	56.667	27.406	+	0.5770	6	107.130	107.130	6	13.472	6.203	+	0.3901		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	18.333	6.009	6	206.667	204.673	-	0.4967	6	1.115	0.453	6	17.323	17.303	-	0.1989		
Habitat Means			195.555	191.447		87.778	77.360	-			36.082	35.861		10.265	7.835	-			
Fisher's	Power		0.004		Power-50%	0.172	P-value	0.5628	y	Power	0.001		Power-50%	0.136	P-value	0.3761	y		
Stouffer's	Power		0.001		Power-50%	0.219	P-value	0.4498		Power	0.001		Power-50%	0.174	P-value	0.3639			
50389C/50389	2	6	0.000	0.000	6	15.000	8.062	-	0.0832	6	0.000	0.000	6	1.752	1.205	-	0.1072		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	2	6	60.000	16.330	6	80.000	63.718	-	0.2168	6	8.113	2.821	6	10.078	8.951	-	0.1385		
Habitat Means			20.000	5.443		31.667	23.927	-			2.704	0.940		3.943	3.352	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0579		Power	---		Power-50%	---	P-value	0.0502			
Stouffer's	Power		---		Power-50%	1.000	P-value	0.0380		Power	---		Power-50%	---	P-value	0.0310			
50389C/50389	3	6	0.000	0.000	6	121.667	87.955	-	0.0920	6	0.000	0.000	6	42.620	35.757	-	0.0991		
51091C/51091	3	6	0.000	0.000	5	46.000	46.000	-	0.3739	6	0.000	0.000	5	8.866	8.866	-	0.3739		
62802C/50226	3	6	75.000	28.954	6	436.667	193.126	-	0.5659	6	8.947	4.174	6	86.458	42.334	-	0.8333		
Habitat Means			25.000	9.651		201.445	109.027	-			2.982	1.391		45.981	28.986	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0611		Power	---		Power-50%	---	P-value	0.0849			
Stouffer's	Power		---		Power-50%	1.000	P-value	0.0378		Power	---		Power-50%	---	P-value	0.0641			

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

Table D 81, Page 7. December 21, 1994

Semibalanus balanoides - abundance (#/m^2)										Semibalanus balanoides - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	23.333	23.333	6	448.333	384.087	-	0.0419	6	1.292	1.292	6	41.398	32.057	-	0.0214		
51091C/51091	1	6	6.667	6.667	6	0.000	0.000	+	0.6221	6	0.025	0.025	6	0.000	0.000	-	0.6936		
62802C/50226	1	6	60.000	38.471	6	223.333	219.358	-	0.2759	6	4.460	3.156	6	15.795	15.783	-	0.1204		
Habitat Means			30.000	22.824		223.889	201.148	-			1.926	1.491		19.064	15.947	-			
Fisher's	Power		---		Power-50%		---	P-value	0.0529	Power		---		Power-50%		---	P-value	0.0164	
Stouffer's	Power		---		Power-50%	0.348	P-value	0.0551		Power		---		Power-50%		---	P-value	0.0179	
50389C/50389	2	6	0.000	0.000	6	113.333	46.524	-	0.0266	6	0.000	0.000	6	9.588	5.334	-	0.0258		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	2	6	1206.667	434.278	6	51.667	34.681	-	0.0013	6	50.897	17.771	6	4.090	2.647	+	0.0064		
Habitat Means			402.222	144.759		55.000	27.068	+			16.966	5.924		4.559	2.660	-			
Fisher's	Power		---		Power-50%		---	P-value	0.0133	Power		---		Power-50%		---	P-value	0.0446	
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.2022		Power		0.000		Power-50%	0.000	P-value	0.3049		
50389C/50389	3	6	33.333	33.333	6	245.000	96.255	-	0.0262	6	1.460	1.460	6	41.625	27.827	-	0.0700		
51091C/51091	3	6	0.000	0.000	5	34.000	34.000	-	0.4479	6	0.000	0.000	5	1.730	1.730	-	0.3739		
62802C/50226	3	6	2095.000	919.024	6	940.000	411.979	+	0.2334	6	60.182	19.272	6	124.365	57.479	-	0.5855		
Habitat Means			709.444	317.452		406.333	180.745	-			20.547	6.911		55.907	29.012	-			
Fisher's	Power		---		Power-50%		---	P-value	0.0640	Power		---		Power-50%		---	P-value	0.0514	
Stouffer's	Power		0.162		Power-50%	0.001	P-value	0.1922		Power		---		Power-50%		---	P-value	0.0336	

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

Table D 81, Page 8. December 21, 1994

Table D-81. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Lacuna spp. - abundance (#/m^2)								Lacuna spp. - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.007	0.007	6	0.000	0.000	+	0.3632
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.556	0.556		0.000	0.000	+			0.002	0.002		0.000	0.000	+	
Fisher's		Power	---	---	Power-50%	---	P-value	0.4028		Power	---	---	Power-50%	---	P-value	0.4028	
Stouffer's		Power	---	---	Power-50%	---	P-value	0.3201		Power	---	---	Power-50%	---	P-value	0.3201	
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---	---	Power-50%	---	P-value	0.6552		Power	---	---	Power-50%	---	P-value	0.6552	
Stouffer's		Power	---	---	Power-50%	---	P-value	0.5000		Power	---	---	Power-50%	---	P-value	0.5000	
50389C/50389	3	6	0.000	0.000	6	96.667	96.667	-	0.3632	6	0.000	0.000	6	0.748	0.748	-	0.3632
51091C/51091	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		32.222	32.222	-			0.000	0.000		0.249	0.249	-	
Fisher's		Power	---	---	Power-50%	---	P-value	0.4028		Power	---	---	Power-50%	---	P-value	0.4028	
Stouffer's		Power	---	---	Power-50%	---	P-value	0.3045		Power	---	---	Power-50%	---	P-value	0.3045	

y Direction of difference between habitat means is indicated under direction of overall tests.
z Only one site pair.

Table D-81. Page 9. December 21, 1994

Site Pair	MVD	Littorina spp. - abundance (#/m^2)								Littorina spp. - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	251.667	160.342	6	1080.000	429.364	-	0.0221	6	9.918	7.225	6	53.252	29.071	-	0.0386
51091C/51091	1	6	93.333	87.394	6	1.667	1.667	+	0.2881	6	6.313	6.166	6	0.057	0.057	-	0.2799
62802C/50226	1	6	40.000	24.900	6	55.000	51.039	-	0.6383	6	1.275	0.657	6	5.665	4.999	-	0.8834
Habitat Means			128.333	90.879		378.889	160.690	-			5.835	4.689		19.658	11.376	-	
Fisher's	Power		---		Power-50%	---	P-value	0.0714		Power	0.013		Power-50%	0.195	P-value	0.1319	
Stouffer's	Power		0.008		Power-50%	0.483	P-value	0.1478		Power	0.018		Power-50%	0.376	P-value	0.2409	
50389C/50389	2	6	1.667	1.667	6	716.667	223.050	-	0.0001	6	0.035	0.035	6	16.487	5.262	-	0.0001
51091C/51091	2	6	143.333	68.150	6	0.000	0.000	-	0.0007	6	5.198	2.713	6	0.000	0.000	-	0.0003
62802C/50226	2	6	116.667	34.026	6	70.000	24.495	-	0.4297	6	5.347	2.073	6	7.493	2.233	-	0.7468
Habitat Means			87.222	34.614		262.222	82.515	-			3.527	1.607		7.993	2.498	-	
Fisher's	Power		---		Power-50%	---	P-value	0.0042 _{xy}		Power	---		Power-50%	---	P-value	0.0013 _x	
Stouffer's	Power		0.030		Power-50%	0.036	P-value	0.4742		Power	0.008		Power-50%	0.038	P-value	0.2949	
50389C/50389	3	6	566.667	556.691	6	340.000	288.594	+	0.5525	6	9.250	8.975	6	4.983	2.088	+	0.4345
51091C/51091	3	6	75.000	40.723	5	66.000	66.000	+	0.9820	6	2.455	1.304	5	1.044	1.044	+	0.0873
62802C/50226	3	6	108.333	76.786	6	345.000	94.402	-	0.5353	6	4.413	3.372	6	24.918	8.333	-	0.0922
Habitat Means			250.000	224.733		250.333	149.665	+			5.373	4.550		10.315	3.822	+	
Fisher's	Power		0.013		Power-50%	0.046	P-value	0.5936 _y		Power	0.006		Power-50%	0.032	P-value	0.1518 _{xy}	
Stouffer's	Power		0.003		Power-50%	0.108	P-value	0.5221		Power	0.001		Power-50%	0.091	P-value	0.4095	

z Only one site pair.

Table D-81. Page 10. December 21, 1994

Table D-81. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	251.667	160.342	6	1078.333	428.045	-	0.0221	6	9.918	7.225	6	53.252	29.071	-	0.0386		
51091C/51091	1	6	93.333	87.394	6	1.667	1.667	+	0.2880	6	6.313	6.186	6	0.057	0.057	+	0.2799		
62802C/50226	1	6	40.000	24.900	6	55.000	51.039	-	0.6383	6	1.275	0.657	6	5.665	4.999	-	0.8834		
Habitat Means			128.333	90.879		378.333	160.250	-			5.835	4.689		19.658	11.376	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0714		Power	0.017		Power-50%	0.203	P-value	0.1319			
Stouffer's		Power	0.009		Power-50%	0.502	P-value	0.1478		Power	0.024		Power-50%	0.404	P-value	0.2409			
50389C/50389	2	6	1.667	1.667	6	708.333	221.697	-	0.0001	6	0.035	0.035	6	16.335	5.269	-	0.0001		
51091C/51091	2	6	13.667	58.276	6	0.000	0.000	+	0.0007	6	5.100	2.668	6	0.000	0.000	+	0.0003		
62802C/50226	2	6	116.667	34.026	6	68.333	23.298	-	0.4210	6	5.347	2.073	6	7.353	2.143	-	0.7420		
Habitat Means			83.334	31.323		258.889	81.665	-			3.494	1.592		7.896	2.471	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0041 _{xy}		Power	---		Power-50%	---	P-value	0.0013 _x			
Stouffer's		Power	0.033		Power-50%	0.037	P-value	0.4704		Power	0.009		Power-50%	0.040	P-value	0.2935			
50389C/50389	3	6	555.000	549.022	6	265.000	213.803	-	0.4204	6	9.127	8.985	6	4.648	1.939	+	0.2278		
51091C/51091	3	6	73.333	40.716	5	64.000	64.000	-	0.9802	6	2.433	1.303	5	0.958	0.958	-	0.0864		
62802C/50226	3	6	108.333	76.786	6	321.667	87.765	-	0.5524	6	4.413	3.372	6	24.075	8.136	-	0.0942		
Habitat Means			245.555	222.175		216.889	121.856	+			5.324	4.553		9.894	3.678	-			
Fisher's		Power	0.036		Power-50%	0.025	P-value	0.5194		Power	---		Power-50%	---	P-value	0.0973 _{xy}			
Stouffer's		Power	0.006		Power-50%	0.061	P-value	0.4675		Power	0.002		Power-50%	0.050	P-value	0.3167			

y Direction of difference between habitat means is different from direction of center. Tests.
z Only one site pair.

Table D-81, Page 11, December 21, 1994

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.000	0.000	-			
Fisher's		Power	---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028			
Stouffer's		Power	---		Power-50%	---	P-value	0.3045		Power	---		Power-50%	---	P-value	0.3045			
50389C/50389	2	6	0.000	0.000	6	8.333	3.073	-	0.0266	6	0.000	0.000	6	0.152	0.079	-	0.0279		
51091C/51091	2	6	11.667	11.667	6	0.000	0.000	-	0.3632	6	0.098	0.098	6	0.000	0.000	-	0.3632		
62802C/50226	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.140	0.140	-	0.3632		
Habitat Means			3.889	3.889		3.333	1.580	-			0.033	0.033		0.097	0.073	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0526 _y		Power	---		Power-50%	---	P-value	0.0545			
Stouffer's		Power	---		Power-50%	---	P-value	0.0855		Power	---		Power-50%	---	P-value	0.0872			
50389C/50389	3	6	11.667	8.333	6	75.000	75.000	-	0.8713	6	0.123	0.110	6	0.335	0.335	-	0.7169		
51091C/51091	3	6	1.667	1.667	5	2.000	2.000	-	0.9318	6	0.022	0.022	5	0.086	0.086	-	0.7927		
62802C/50226	3	6	0.000	0.000	6	23.333	8.819	-	0.0060	6	0.000	0.000	6	0.843	0.368	-	0.0010		
Habitat Means			4.445	3.333		33.444	28.606	-			0.048	0.044		0.421	0.263	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0218		Power	---		Power-50%	---	P-value	0.0040			
Stouffer's		Power	---		Power-50%	0.297	P-value	0.0278		Power	---		Power-50%	---	P-value	0.0068			

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

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

Table D-81, Page 12, December 21, 1994

Table D-81. Invertebrate Abundance and Biomass, Cook Inlet/Kenai, Coarse Textured, July 1990. (Continued.)

Mytilus edulis - abundance (#/m^2)										Mytilus edulis - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	23.333	12.293	6	108.333	63.897	-	0.4041	6	0.178	0.130	6	12.415	9.195	-	0.1876
51091C/51091	1	6	0.000	0.000	6	5.000	2.236	-	0.0756	6	0.000	0.000	6	0.617	0.589	-	0.1015
62802C/50226	1	6	6.667	3.333	6	5.000	3.416	-	0.6400	6	0.042	0.029	6	0.772	0.642	-	0.8269
Habitat Means			10.000	5.209		39.444	23.183	-			0.073	0.053		4.601	3.475	-	
Fisher's	Power		0.307		Power-50%	0.274	P-value	0.1044		Power	---		Power-50%	---	P-value	0.0524	
Stouffer's	Power		0.342		Power-50%	0.378	P-value	0.1399		Power	---		Power-50%	---	P-value	0.0423	
50389C/50389	2	6	360.000	358.004	6	266.667	134.776	+	0.0378	6	59.740	59.740	6	51.905	31.544	+	0.0068
51091C/51091	2	6	3.333	2.108	6	3.333	3.333	o	0.8176	6	0.027	0.019	6	0.098	0.098	-	0.8683
62802C/50226	2	6	41.667	28.097	6	206.667	101.937	-	0.2434	6	0.445	0.338	6	130.748	73.315	-	0.0306
Habitat Means			135.000	129.403		158.889	80.015	+			20.071	20.032		60.917	34.986	-	
Fisher's	Power		0.040		Power-50%	0.142	P-value	0.1601 y		Power	0.011		Power-50%	0.019	P-value	0.1232 y	
Stouffer's	Power		0.075		Power-50%	0.321	P-value	0.3838		Power	0.065		Power-50%	0.195	P-value	0.5152	
50389C/50389	3	6	2853.333	1932.361	6	501.667	146.956	+	0.3192	6	748.168	482.633	6	154.258	71.516	+	0.1761
51091C/51091	3	6	25.000	16.279	5	32.000	32.000	-	0.7841	6	0.122	0.093	5	8.944	8.944	-	0.9321
62802C/50226	3	6	308.333	140.081	6	611.667	160.508	-	0.8069	6	10.738	6.349	6	1183.893	384.090	-	0.1708
Habitat Means			1062.222	696.240		381.778	113.155	-			253.009	163.025		449.032	154.850	-	
Fisher's	Power		0.021		Power-50%	0.021	P-value	0.6718 y		Power	0.017		Power-50%	0.004	P-value	0.3562	
Stouffer's	Power		0.007		Power-50%	0.021	P-value	0.6033		Power	0.004		Power-50%	0.005	P-value	0.4329	

y Direction of difference between habitat means is different than direction of overall tests.
 x Only one site pair.

Table D-81, Page 13, December 21, 1994

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	1.667	1.667	6	0.000	0.000	-	0.0002	6	0.000	0.000	6	0.000	0.000	-	0.0004
51091C/51091	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632
62802C/50226	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.003	0.003	6	0.000	0.000	+	0.3632
Habitat Means			1.667	1.667		265.000	150.423	-			0.001	0.001		0.238	0.148	+	
Fisher's		Power	0.504		Power-50%	---	P-value	0.3369 _{xy}		Power	0.280		Power-50%	---	P-value	0.3350 _{xy}	
Stouffer's		Power	0.556		Power-50%	---	P-value	0.6859		Power	0.469		Power-50%	---	P-value	0.5801	
50389C/50389	2	6	0.000	0.000	6	325.000	173.585	-	0.0266	6	0.000	0.000	6	0.248	0.107	-	0.0259
51091C/51091	2	6	8.333	4.773	6	0.000	0.000	+	0.0823	6	0.027	0.015	6	0.000	0.000	+	0.0785
62802C/50226	2	6	5.000	5.000	6	0.000	0.000	+	0.3632	6	0.018	0.018	6	0.000	0.000	+	0.3632
Habitat Means			4.444	3.258		108.333	57.862	+			0.015	0.011		0.083	0.036	-	
Fisher's		Power	0.750		Power-50%	0.345	P-value	0.1325 _{xy}		Power	0.847		Power-50%	0.391	P-value	0.1283 _{xy}	
Stouffer's		Power	0.394		Power-50%	0.413	P-value	0.4075		Power	0.510		Power-50%	0.460	P-value	0.4053	
50389C/50389	3	6	5.000	5.000	6	4955.000	4108.804	-	0.0077	6	0.000	0.000	6	6.978	6.133	-	0.0098
51091C/51091	3	6	23.333	11.155	5	0.000	0.000	+	0.0768	6	0.083	0.040	5	0.000	0.000	-	0.0765
62802C/50226	3	6	68.333	60.355	6	0.000	0.000	+	0.0205	6	0.058	0.043	6	0.000	0.000	-	0.0272
Habitat Means			32.222	25.503		1651.667	1369.601	+			0.047	0.028		2.326	2.044	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0155 _{xy}		Power	---		Power-50%	---	P-value	0.0193 _{xy}	
Stouffer's		Power	0.315		Power-50%	0.307	P-value	0.1813		Power	0.242		Power-50%	0.237	P-value	0.1875	

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-81, Page 14, December 21, 1994

Table D-81. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Pagurus spp. - abundance (#/m ²)								Pagurus spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
50389C/50389	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.230	0.230	-	0.3632
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.077	0.077	-	
Fisher's	Power		---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028	
Stouffer's	Power		---		Power-50%	---	P-value	0.3045		Power	---		Power-50%	---	P-value	0.3045	
50389C/50389	3	6	5.000	5.000	6	1.667	1.667	+	0.8096	6	0.290	0.290	6	0.013	0.013	-	0.7305
51091C/51091	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
62802C/50226	3	6	1.667	1.667	6	20.000	12.832	-	0.3477	6	0.030	0.030	6	0.325	0.211	-	0.4191
Habitat Means			2.222	2.222		7.222	5.500	-			0.107	0.107		0.113	0.075	-	
Fisher's	Power		0.043		Power-50%	---	P-value	0.4319		Power	0.256		Power-50%	---	P-value	0.4911	
Stouffer's	Power		0.011		Power-50%	---	P-value	0.3183		Power	0.001		Power-50%	---	P-value	0.3710	

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

Table D-81. Page 15. December 21, 1994

Site Pair	MVD	Nucella spp. - abundance (#/m ²)								Nucella spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
50389C/50389	3	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.008	0.008	6	0.000	0.000	+	0.3632
51091C/51091	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.556	0.556		0.000	0.000	+			0.003	0.003		0.000	0.000	+	
Fisher's	Power		---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028	
Stouffer's	Power		---		Power-50%	---	P-value	0.3045		Power	---		Power-50%	---	P-value	0.3045	

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

Table D-81. Page 16. December 21, 1994

Table D-81. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Nucella lima - abundance (#/m ²)								Nucella lima - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power	---			Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power	---			Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
50389C/50389	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power	---			Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000

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

Table D-81, Page 17, December 21, 1994

Site Pair	MVD	Nucella lamellosa - abundance (#/m ²)								Nucella lamellosa - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power	---			Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power	---			Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
50389C/50389	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power	---			Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000

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

Table D-81, Page 18, December 21, 1994

Table D-81. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Coarse Textured, July 1990. (Continued.)

Amphipoda - abundance (#/m^2)										Amphipoda - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	981.667	567.858	6	71.667	28.684	-	0.4378	6	2.365	1.298	6	0.635	0.380	+	0.7221		
51091C/51091	1	6	55.000	18.753	6	1078.333	876.590	-	0.5670	6	0.438	0.366	6	1.440	0.799	-	0.5900		
62802C/50226	1	6	40.000	38.035	6	140.000	95.778	-	0.2154	6	0.387	0.387	6	0.732	0.432	-	0.0903		
Habitat Means			358.889	208.215		430.000	333.684	-			1.063	0.684		0.936	0.537	-			
Fisher's	Power		0.001		Power-50%	0.180	P-value	0.2794		Power	0.002		Power-50%	0.031	P-value	0.1457	y		
Stouffer's	Power		0.003		Power-50%	0.344	P-value	0.2547		Power	0.014		Power-50%	0.201	P-value	0.1203			
50389C/50389	2	6	23.333	8.819	6	121.667	106.252	-	0.7739	6	0.037	0.014	6	0.628	0.575	-	0.8872		
51091C/51091	2	6	1021.667	465.170	6	2240.000	1309.585	-	0.5729	6	9.352	5.081	6	4.280	2.071	-	0.9106		
62802C/50226	2	6	21.667	21.667	6	761.667	377.513	-	0.0050	6	0.108	0.108	6	8.683	4.586	-	0.0013		
Habitat Means			355.556	165.219		1041.111	597.783	-			3.166	1.734		4.530	2.411	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0118		Power	---		Power-50%	---	P-value	0.0076			
Stouffer's	Power		---		Power-50%	0.164	P-value	0.0117		Power	---		Power-50%	---	P-value	0.0177			
50389C/50389	3	6	128.333	102.905	6	113.333	66.767	-	0.5524	6	0.308	0.224	6	0.407	0.201	-	0.5831		
51091C/51091	3	6	30.000	22.211	5	36.000	24.617	-	0.9585	6	0.017	0.017	5	0.016	0.016	-	0.9518		
62802C/50226	3	6	0.000	0.000	6	2376.667	1003.569	-	0.0066	6	0.000	0.000	6	4.685	2.178	-	0.0078		
Habitat Means			52.778	41.705		842.000	364.984	-			0.108	0.080		1.703	0.798	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0352		Power	---		Power-50%	---	P-value	0.0214			
Stouffer's	Power		---		Power-50%	0.114	P-value	0.0734		Power	---		Power-50%	---	P-value	0.0227			

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-81, Page 19. December 21, 1994

Isopoda - abundance (#/m^2)										Isopoda - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	11.000	33.010	6	1141.000	1139.088	-	0.9703	6	0.108	0.085	6	2.692	2.692	-	0.5866		
51091C/51091	1	6	0.000	0.000	6	5.000	3.416	-	0.1784	6	0.000	0.000	6	0.012	0.012	-	0.5540		
62802C/50226	1	6	3.333	2.108	6	1.667	1.667	+	0.5490	6	0.008	0.008	6	0.005	0.005	+	0.9086		
Habitat Means			15.000	12.641		382.778	381.584	-			0.039	0.031		0.903	0.903	-			
Fisher's		Power	0.218		Power-50%	0.116	P-value	0.3281		Power	0.085		Power-50%	0.018	P-value	0.3977			
Stouffer's		Power	0.360		Power-50%	0.203	P-value	0.3725		Power	0.262		Power-50%	0.055	P-value	0.2961			
50389C/50389	2	6	1.667	1.667	6	35.000	25.000	-	0.3098	6	0.000	0.000	6	0.317	0.313	-	0.2355		
51091C/51091	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.008	0.008	-	0.3632		
62802C/50226	2	6	5.000	3.416	6	183.333	149.190	-	0.1461	6	0.040	0.027	6	3.243	2.549	-	0.1763		
Habitat Means			2.222	1.694		73.333	58.619	-			0.013	0.009		1.189	0.957	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0541		Power	---		Power-50%	---	P-value	0.0508			
Stouffer's		Power	---		Power-50%	0.572	P-value	0.0239		Power	---		Power-50%	---	P-value	0.0222			
50389C/50389	3	6	31.667	29.712	6	186.667	136.031	-	0.2527	6	0.053	0.053	6	1.280	1.133	-	0.1131		
51091C/51091	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
62802C/50226	3	6	80.000	74.162	6	1225.000	412.963	-	0.0234	6	0.317	0.266	6	26.553	11.247	-	0.0211		
Habitat Means			37.222	34.625		470.556	182.998	-			0.123	0.106		9.278	4.127	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0253		Power	---		Power-50%	---	P-value	0.0125			
Stouffer's		Power	---		Power-50%	0.090	P-value	0.0174		Power	---		Power-50%	---	P-value	0.0085			

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-81, Page 20. December 21, 1994

Table D-81. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Errant polychaetes - abundance (#/m ²)								Errant polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	0	1.0000	6	0.000	0.000	6	0.000	0.000	0	1.0000
51091C/51091	1	6	3.333	2.108	6	0.000	0.000	+	0.1747	6	0.001	0.001	6	0.000	0.000	+	0.1747
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	0	1.0000	6	0.000	0.000	6	0.000	0.000	0	1.0000
Habitat Means			1.111	0.703		0.000	0.000	+			0.000	0.000		0.000	0.000	-	
Fisher's		Power	0.279		Power-50%	0.167	P-value	0.2650		Power	0.279		Power-50%	0.169	P-value	0.2650	
Stouffer's		Power	0.279		Power-50%	0.083	P-value	0.2426		Power	0.279		Power-50%	0.058	P-value	0.2426	
50389C/50389	2	6	10.000	10.000	6	25.000	17.654	-	0.3463	6	0.010	0.010	6	0.012	0.012	-	0.8712
51091C/51091	2	6	230.000	166.293	6	0.000	0.000	+	0.0395	6	0.139	0.121	6	0.000	0.000	+	0.1482
62802C/50226	2	6	11.667	9.804	6	1.667	1.667	+	0.4252	6	0.000	0.000	6	0.115	0.115	-	0.4220
Habitat Means			83.889	62.032		8.889	6.440	+			0.050	0.044		0.042	0.042	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0788		Power	0.006		Power-50%	0.114	P-value	0.5531	y
Stouffer's		Power	0.390		Power-50%	0.429	P-value	0.1480		Power	0.001		Power-50%	0.293	P-value	0.5529	
50389C/50389	3	6	120.000	114.105	6	1050.000	435.561	-	0.0197	6	0.029	0.028	6	1.215	0.472	-	0.0160
51091C/51091	3	6	76.667	49.441	5	2.000	2.000	+	0.0913	6	0.058	0.031	5	0.024	0.024	-	0.3675
62802C/50226	3	6	236.667	84.248	6	228.333	123.893	+	0.8653	6	0.955	0.463	6	16.367	7.732	-	0.2643
Habitat Means			144.445	82.598		426.778	187.151	-			0.347	0.174		5.869	2.743	-	
Fisher's		Power	0.036		Power-50%	0.175	P-value	0.2479 _{xy}		Power	---		Power-50%	---	P-value	0.0284	
Stouffer's		Power	0.052		Power-50%	0.351	P-value	0.6310		Power	---		Power-50%	---	P-value	0.0531	

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

Table D-81. Page 21. December 21, 1994

Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
50389C/50389	1	6	6.667	6.667	6	11.667	6.540	-	0.3558	6	0.007	0.007	6	0.002	0.002	-	0.9185	
51091C/51091	1	6	3.333	3.333	6	0.000	0.000	-	0.3632	6	0.001	0.001	6	0.000	0.000	-	0.3632	
62802C/50226	1	6	1.667	1.667	6	0.000	0.000	-	0.3632	6	0.107	0.107	6	0.000	0.000	+	0.3632	
Habitat Means			3.889	3.889		3.889	2.180	+			0.038	0.038		0.001	0.001	+		
Fisher's	Power		0.998		Power-50%		---	P-value	0.3014 _y	Power		0.950		Power-50%		---	P-value	0.2116
Stouffer's	Power		0.999		Power-50%		---	P-value	0.2958	Power		0.995		Power-50%		---	P-value	0.1328
50389C/50389	2	6	6.667	4.944	6	45.000	18.394	-	0.1405	6	0.012	0.012	6	0.019	0.013	-	0.4829	
51091C/51091	2	6	131.667	125.709	6	0.000	0.000	+	0.1203	6	0.158	0.150	6	0.000	0.000	-	0.1114	
62802C/50226	2	6	251.667	216.601	6	1.667	1.667	+	0.0567	6	0.367	0.339	6	0.000	0.000	-	0.0893	
Habitat Means			130.000	115.751		15.556	6.687	+			0.179	0.167		0.006	0.004	-		
Fisher's	Power		---		Power-50%		---	P-value	0.0448	Power		---		Power-50%		---	P-value	0.0508
Stouffer's	Power		0.209		Power-50%		0.381	P-value	0.1145	Power		---		Power-50%		---	P-value	0.0637
50389C/50389	3	6	46.667	40.961	6	2460.000	1123.901	-	0.0011	6	0.537	0.533	6	4.212	2.155	-	0.0030	
51091C/51091	3	6	25.000	12.583	5	0.000	0.000	+	0.1161	6	0.037	0.024	5	0.000	0.000	+	0.1846	
62802C/50226	3	6	2136.667	881.947	6	101.667	97.721	+	0.0006	6	3.414	1.455	6	0.035	0.031	+	0.0004	
Habitat Means			736.111	311.830		853.889	407.207	-			1.329	0.671		1.416	0.729	+		
Fisher's	Power		---		Power-50%		---	P-value	0.0013 _{xy}	Power		---		Power-50%		---	P-value	0.0013 _{xy}
Stouffer's	Power		0.000		Power-50%		0.080	P-value	0.1165	Power		---		Power-50%		---	P-value	0.0962

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

Table D-81. Page 22. December 21, 1994

Table D-81. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Coarse Textured, July 1990. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	866.667	557.217	6	1330.000	346.112	-	0.1763	6	0.213	0.081	6	0.523	0.147	-	0.3876		
51091C/51091	1	6	1526.667	658.512	6	8086.667	4354.796	-	0.5775	6	1.850	1.187	6	6.085	3.669	-	0.7412		
62802C/50226	1	6	955.000	823.548	6	498.333	217.676	+	0.9955	6	1.797	1.777	6	0.935	0.428	+	0.2166		
Habitat Means			1116.111	679.759		3305.000	1639.528	-			1.287	1.015		2.514	1.415	-			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.1900		Power	0.000		Power-50%	0.000	P-value	0.4819			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.1483		Power	0.000		Power-50%	0.000	P-value	0.5573			
50389C/50389	2	6	1106.667	492.576	6	833.333	268.249	+	0.6581	6	0.860	0.271	6	0.450	0.185	+	0.6205		
51091C/51091	2	6	271.667	91.266	6	41333.332	18330.904	-	0.0158	6	0.037	0.018	6	30.340	14.111	-	0.0007		
62802C/50226	2	6	461.667	259.877	6	2118.333	1355.120	-	0.6585	6	0.467	0.324	6	0.760	0.397	-	0.8121		
Habitat Means			613.334	281.240		14761.666	6651.424	-			0.455	0.204		10.517	4.898	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0480		Power	---		Power-50%	---	P-value	0.0050			
Stouffer's	Power		0.000		Power-50%	0.002	P-value	0.1006		Power	---		Power-50%	---	P-value	0.0479			
50389C/50389	3	6	1510.000	785.315	6	548.333	237.563	+	0.9960	6	2.145	1.360	6	0.254	0.191	+	0.1940		
51091C/51091	3	6	113.333	41.607	5	44382.000	33169.633	-	0.0017	6	0.025	0.014	5	26.462	16.067	-	0.0011		
62802C/50226	3	6	496.667	256.784	5	4096.667	1492.536	-	0.0085	6	0.050	0.032	6	1.872	0.701	-	0.0033		
Habitat Means			706.667	361.235		16342.333	11633.244	-			0.740	0.469		9.529	5.653	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0002		Power	---		Power-50%	---	P-value	0.0001			
Stouffer's	Power		---		Power-50%	0.235	P-value	0.0005		Power	---		Power-50%	---	P-value	0.0022			

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

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

z Only one site pair.

Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	2905.000	1071.758	6	5781.667	1642.253	-	0.3166	6	122.129	110.027	6	129.834	60.773	-	0.2042		
51091C/51091	1	6	1845.000	643.909	6	9230.000	4706.199	-	0.6644	6	8.757	6.301	6	8.426	4.418	-	0.5184		
62802C/50226	1	6	1401.667	815.256	6	1615.000	842.424	-	0.9668	6	9.668	3.488	6	45.597	41.794	-	0.9054		
Habitat Means			2050.556	843.641		5542.222	2396.959	-			46.851	39.939		61.286	35.662	-			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.2902		Power	0.000		Power-50%	0.000	P-value	0.3447			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.2080		Power	0.000		Power-50%	0.000	P-value	0.3230			
50389C/50389	2	6	1543.333	475.813	6	2833.333	569.126	-	0.0997	6	77.192	76.080	6	84.759	32.969	-	0.9148		
51091C/51091	2	6	2121.667	594.168	6	44348.332	19363.863	-	0.1457	6	14.990	5.343	6	34.902	14.938	-	0.7785		
62802C/50226	2	6	3295.000	804.035	6	3801.667	1989.260	-	0.5859	6	71.101	18.326	6	168.571	85.471	-	0.1750		
Habitat Means			2320.000	624.672		16994.444	7307.416	-			54.428	33.250		96.077	44.459	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0333		Power	0.000		Power-50%	0.000	P-value	0.2153			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0213		Power	0.000		Power-50%	0.000	P-value	0.1395			
50389C/50389	3	6	5418.333	2645.128	6	13881.667	6228.926	-	0.1968	6	763.756	491.813	6	315.083	168.727	-	0.3977		
51091C/51091	3	6	3098.333	1746.076	5	45012.000	33233.820	-	0.0311	6	11.261	8.138	5	47.389	20.480	-	0.4901		
62802C/50226	3	6	8270.000	2187.488	6	13406.667	5480.846	-	0.8261	6	116.637	21.901	6	1487.099	457.129	-	0.3329		
Habitat Means			5595.555	2192.897		24100.111	14981.197	-			297.218	173.951		616.524	215.445	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0224		Power	0.000		Power-50%	0.000	P-value	0.3357			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0240		Power	0.000		Power-50%	0.000	P-value	0.3066			

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

Table D-81, Page 21. December 21, 1994

Table D-81, Page 24. December 21, 1994

Table D-82. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m^2)											Lottidae - biomass (g/m^2)										
ite Pair	MVD	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P			
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	-	0.3333		6	0.000	0.000	6	0.000	0.000	-	0.3333			
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000			
62802C/50226	1	6	0.000	0.000	6	1.667	1.667	-	0.3632		6	0.000	0.000	6	0.130	0.130	-	0.3632			
Habitat Means			1.667	1.667		2.778	1.667	-				0.449	0.449		0.696	0.401	-				
Fisher's	Power		0.398		Power-50%	---		P-value	0.2345		Power	0.128		Power-50%	---		P-value	0.1999			
Stouffer's	Power		0.014		Power-50%	---		P-value	0.1426		Power	0.009		Power-50%	---		P-value	0.1218			
50389C/50389	2	6	13.333	13.333	6	10.000	10.000	+	0.8554		6	1.443	1.443	6	2.260	2.260	-	0.9735			
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000			
62802C/50226	2	6	10.000	8.165	6	41.667	25.353	-	0.0911		6	0.895	0.846	6	7.878	4.088	-	0.3785			
Habitat Means			7.778	7.166		17.222	11.784	-				0.779	0.763		3.379	2.116	-				
Fisher's	Power		0.018		Power-50%	0.133		P-value	0.1924		Power	0.050		Power-50%	0.033		P-value	0.4060			
Stouffer's	Power		0.020		Power-50%	0.156		P-value	0.1607		Power	0.068		Power-50%	0.074		P-value	0.2781			
50389C/50389	3	6	28.333	16.003	6	86.667	46.236	-	0.4996		6	1.928	1.332	6	10.100	4.808	-	0.4035			
51091C/51091	3	5	0.000	0.000	6	0.000	0.000	o	1.0000		5	0.000	0.000	6	0.000	0.000	o	1.0000			
62802C/50226	3	6	5.000	3.416	5	129.000	59.085	-	0.0317		6	0.373	0.253	5	13.159	5.377	-	0.0598			
Habitat Means			11.111	6.473		71.889	35.107	-				0.767	0.528		7.753	3.395	-				
Fisher's	Power		---		Power-50%	---		P-value	0.0527		Power	---		Power-50%	---		P-value	0.0713			
Stouffer's	Power		---		Power-50%	0.308		P-value	0.0383		Power	---		Power-50%	---		P-value	0.0456			

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

Table D-82. Page 1. December 21, 1994

Lottia pelta - abundance (#/m^2)										Lottia Pelta - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552		
Stouffer's	Power		---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000		
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	2	6	0.000	0.000	6	5.000	5.000	-	0.3632	6	0.000	0.000	6	0.823	0.823	-	0.3632		
Habitat Means			0.000	0.000		1.667	1.667	-			0.000	0.000		0.274	0.274	-			
Fisher's	Power		---		Power-50%	---		P-value	0.4028	Power	---		Power-50%	---		P-value	0.4028		
Stouffer's	Power		---		Power-50%	---		P-value	0.2781	Power	---		Power-50%	---		P-value	0.2781		
50389C/50389	3	6	13.333	7.149	6	46.667	24.175	-	0.6259	6	1.240	0.834	6	5.530	3.038	-	0.7514		
51091C/51091	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	3	6	3.333	2.108	5	36.000	16.310	-	0.0539	6	0.310	0.200	5	5.389	2.774	-	0.0829		
Habitat Means			5.555	3.086		27.556	13.495	-			0.517	0.343		3.640	1.937	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0903	Power	0.035		Power-50%	0.167		P-value	0.1374		
Stouffer's	Power		---		Power-50%	0.345		P-value	0.0640	Power	---		Power-50%	---		P-value	0.0967		

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

Table D-82. Page 2. December 21, 1994

Table D-82. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. August 1990. (Continued.)

Tectura persona - abundance (#/m^2)										Tectura persona - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	5.000	5.000	6	5.000	3.416	o	0.6898	6	1.348	1.348	6	1.270	1.013	-	0.6179
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.130	0.130	-	0.3632
Habitat Means			1.667	1.667		2.222	1.694	-			0.449	0.449		0.467	0.381	-	
Fisher's	Power		0.342		Power-50%	---	P-value	0.4642		Power	0.068		Power-50%	---	P-value	0.4770	
Stouffer's	Power		0.033		Power-50%	---	P-value	0.3579		Power	0.018		Power-50%	---	P-value	0.3790	
50389C/50389	2	6	13.333	13.333	6	8.333	8.333	+	0.9390	6	1.443	1.443	6	2.072	2.072	-	0.9785
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	6.667	6.667	6	33.333	17.826	-	0.2266	6	0.795	0.795	6	6.857	3.542	-	0.2232
Habitat Means			6.667	6.667		13.889	8.720	-			0.746	0.746		2.976	1.871	-	
Fisher's	Power		0.003		Power-50%	---	P-value	0.3200		Power	0.096		Power-50%	---	P-value	0.3026	
Stouffer's	Power		0.001		Power-50%	---	P-value	0.2297		Power	0.090		Power-50%	---	P-value	0.2108	
50389C/50389	3	6	0.000	0.000	6	3.333	2.108	-	0.1747	6	0.000	0.000	6	1.525	1.407	-	0.1824
51091C/51091	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	3	6	1.667	1.667	5	72.000	57.393	-	0.0303	6	0.063	0.063	5	5.900	4.885	-	0.0227
Habitat Means			0.556	0.556		25.111	19.834	-			0.021	0.021		2.475	2.097	-	
Fisher's	Power	---			Power-50%	---	P-value	0.0232		Power	---		Power-50%	---	P-value	0.0192	
Stouffer's	Power	---			Power-50%	---	P-value	0.0151		Power	---		Power-50%	---	P-value	0.0130	

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

Table D-82, Page 3. December 21, 1994

Tectura scutum - abundance (#/m^2)										Tectura scutum - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's Stouffer's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's Stouffer's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
50389C/50389	3	6	5.000	5.000	6	8.333	8.333	-	0.9259	6	0.150	0.150	6	0.623	0.623	-	0.8966
51091C/51091	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			1.667	1.667		2.778	2.778	-			0.050	0.050		0.208	0.208	-	
Fisher's Stouffer's	Power		---		Power-50%	---	P-value	0.6344		Power	---		Power-50%	---	P-value	0.6258	
	Power		---		Power-50%	---	P-value	0.4792		Power	---		Power-50%	---	P-value	0.4709	

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

Table D-82, Page 4. December 21, 1994

Table D-82. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Coarse Textured, August 1990. (Continued.)

Balanomorphs - abundance (#/m ²)										Balanomorphs - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	145.000	145.000	6	1008.333	748.480	-	0.1368	6	2.682	2.682	6	119.077	83.647	-	0.0824
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	111.667	62.951	6	1248.333	1248.333	-	0.4276	6	5.495	3.583	6	42.907	42.907	-	0.2406
Habitat Means			85.556	69.317		752.222	665.604	-			2.726	2.088		53.995	42.185	-	
Fisher's		Power	0.036		Power-50%	0.068	P-value	0.1317		Power	---		Power-50%	---	P-value	0.0620	
Stouffer's		Power	---		Power-50%	0.091	P-value	0.0884		Power	---		Power-50%	---	P-value	0.0412	
50389C/50389	2	6	143.333	131.698	6	935.000	596.639	-	0.2749	6	5.537	5.505	6	82.183	58.821	-	0.0760
51091C/51091	2	6	0.000	0.000	6	200.000	200.000	-	0.7807	6	0.000	0.000	6	29.672	29.672	-	0.4822
62802C/50226	2	6	1720.000	522.220	6	975.333	913.235	-	0.3038	6	32.852	15.289	6	30.593	24.727	-	0.9572
Habitat Means			621.111	217.973		703.444	569.958	-			12.796	6.931		47.483	37.740	-	
Fisher's		Power	0.095		Power-50%	0.006	P-value	0.4033		Power	---		Power-50%	---	P-value	0.0985	
Stouffer's		Power	0.164		Power-50%	0.000	P-value	0.4635		Power	---		Power-50%	---	P-value	0.0925	
50389C/50389	3	6	1148.333	1146.334	6	1006.667	316.066	+	0.0117	6	17.012	16.021	6	110.962	33.263	-	0.0136
51091C/51091	3	5	88.000	78.384	6	1170.000	997.380	-	0.7694	5	6.564	5.631	6	47.842	30.266	-	0.9444
62802C/50226	3	6	6950.000	2113.182	5	3199.660	972.613	+	0.2480	6	135.820	44.713	5	180.329	117.814	-	0.6896
Habitat Means			2728.778	1112.633		1792.109	762.020	+			53.132	22.122		113.044	60.448	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0172		Power	---		Power-50%	---	P-value	0.0343	
Stouffer's		Power	---		Power-50%	0.021	P-value	0.0219		Power	---		Power-50%	---	P-value	0.0462	

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

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

z Only one site pair.

Table D 82, Page 5, December 27, 1994

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	111.667	111.667	6	13.333	6.146	+	0.6751	6	0.725	0.725	6	0.213	0.100	-	0.4244
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	726.667	726.667	-	0.3632	6	0.000	0.000	6	5.255	5.255	-	0.3632
Habitat Means			37.222	37.222		246.667	244.271	-			0.242	0.242		1.823	1.785	-	
Fisher's		Power	0.628		Power-50%	---	P-value	0.4669		Power	0.500		Power-50%	---	P-value	0.5090	
Stouffer's		Power	0.008		Power-50%	---	P-value	0.3621		Power	0.004		Power-50%	---	P-value	0.4447	
50389C/50389	2	6	8.333	8.333	6	81.667	79.683	-	0.5396	6	0.017	0.017	6	0.873	0.852	-	0.4088
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.018	0.018	-	0.3632
Habitat Means			2.778	2.778		27.778	27.117	-			0.006	0.006		0.297	0.290	-	
Fisher's		Power	0.019		Power-50%	---	P-value	0.2839		Power	0.053		Power-50%	---	P-value	0.2400	
Stouffer's		Power	0.032		Power-50%	---	P-value	0.1753		Power	0.083		Power-50%	---	P-value	0.1461	
50389C/50389	3	6	1140.000	1140.000	6	355.000	355.000	+	0.9225	6	16.055	16.055	6	2.362	2.362	-	0.9004
51091C/51091	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	5	2.000	2.000	-	0.3739	6	0.000	0.000	5	0.042	0.042	-	0.3739
Habitat Means			380.000	380.000		119.000	119.000	-			5.352	5.352		0.801	0.801	-	
Fisher's		Power	---		Power-50%	---	P-value	0.4258 y		Power	---		Power-50%	---	P-value	0.4303 y	
Stouffer's		Power	---		Power-50%	---	P-value	0.3012		Power	---		Power-50%	---	P-value	0.3067	

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

Table D-82, Page 5, December 21, 1994

Table D-82. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. August 1990. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site	Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
50389C/50389	1	6	26.667	26.667	6	316.000	306.207	-	0.0371		6	0.000	0.000	6	0.000	0.000	0	1.0000	
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	0	1.0000		6	4.022	2.624	6	22.250	22.250	-	0.4338	
62802C/50226	1	6	23.333	11.738	6	271.667	271.667	-	0.6655										
Habitat Means			16.667	12.802		262.778	219.292		-			1.972	1.506		35.774	27.092		-	
Fisher's			Power	0.101		Power-50%	0.480		P-value	0.1408	Power	---		Power-50%	---		P-value	0.0930	
Stouffer's			Power	0.067		Power-50%	0.477		P-value	0.1125	Power	---		Power-50%	---		P-value	0.0683	
50389C/50389	2	6	16.667	14.757	6	231.667	168.511	-	0.0124		6	0.468	0.456	6	30.058	26.609	-	0.0196	
51091C/51091	2	6	0.000	0.000	6	65.000	65.000	-	0.3697		6	0.000	0.000	6	18.457	18.457	-	0.3703	
62802C/50226	2	6	45.000	22.323	6	18.333	12.758	-	0.2471		6	3.092	1.084	6	2.033	1.095	-	0.2679	
Habitat Means			20.556	12.360		105.000	82.090		-			1.187	0.513		16.849	15.387		-	
Fisher's			Power	---		Power-50%	---		P-value	0.0319	Power	---		Power-50%	---		P-value	0.0445	
Stouffer's			Power	0.298		Power-50%	0.035		P-value	0.1315	Power	0.330		Power-50%	0.027		P-value	0.1453	
50389C/50389	3	6	5.000	3.416	6	326.667	186.184	-	0.0015		6	0.952	0.828	6	41.245	22.831	-	0.0046	
51091C/51091	3	5	28.000	28.000	6	891.667	736.552	-	0.4609		5	2.376	2.376	6	20.028	14.937	-	0.4648	
62802C/50226	3	6	88.333	21.972	5	238.000	114.210	-	0.9403		6	6.378	1.872	5	38.505	21.848	-	0.3739	
Habitat Means			40.444	17.796		485.445	345.649		-			3.235	1.692		33.259	19.872		-	
Fisher's			Power	---		Power-50%	---		P-value	0.0045	Power	---		Power-50%	---		P-value	0.0053	
Stouffer's			Power	---		Power-50%	0.364		P-value	0.0134	Power	---		Power-50%	---		P-value	0.0054	

x At least one site pair showed a value in opposite direction of habitat means.

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

z Only one site pair.

Table D-2. Page 7. December 21, 1994

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site	Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
50389C/50389	1	6	5.000	5.000	6	465.000	350.559	-	0.1503		6	0.018	0.018	6	33.628	25.132	-	0.1073	
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	0	1.0000		6	0.000	0.000	6	0.000	0.000	0	1.0000	
62802C/50226	1	6	35.000	33.040	6	250.000	250.000	-	0.9668		6	1.123	1.111	6	15.402	15.402	-	0.9206	
Habitat Means			13.333	12.680		238.333	200.186		-			0.380	0.376		16.343	13.511		-	
Fisher's			Power	0.108		Power-50%	0.031		P-value	0.2369	Power	0.109		Power-50%	0.008		P-value	0.1858	
Stouffer's			Power	0.144		Power-50%	0.041		P-value	0.2014	Power	0.164		Power-50%	0.028		P-value	0.1658	
50389C/50389	2	6	118.333	118.333	6	620.000	352.203	-	0.3839		6	5.052	5.052	6	51.128	31.667	-	0.0790	
51091C/51091	2	6	0.000	0.000	6	133.333	133.333	-	0.8159		6	0.000	0.000	6	11.215	11.215	-	0.6612	
62802C/50226	2	6	1116.667	358.791	6	871.667	825.948	-	0.6691		6	28.585	14.767	6	28.170	23.525	-	0.9870	
Habitat Means			411.667	159.041		541.667	437.161		-			11.212	6.606		30.171	22.136		-	
Fisher's			Power	0.069		Power-50%	0.004		P-value	0.4335	Power	0.134		Power-50%	0.013		P-value	0.1231	
Stouffer's			Power	0.074		Power-50%	0.000		P-value	0.3696	Power	0.115		Power-50%	0.004		P-value	0.1144	
50389C/50389	3	6	0.000	0.000	6	285.000	92.799	-	0.0058		6	0.000	0.000	6	65.337	28.407	-	0.0050	
51091C/51091	3	5	60.000	50.596	6	265.000	255.131	-	0.9898		5	4.188	3.293	6	11.108	9.014	-	0.9434	
62802C/50226	3	6	4285.000	1366.013	5	2645.660	846.797	-	0.3653		6	119.523	39.530	5	140.644	97.213	-	0.3951	
Habitat Means			1448.333	472.203		1065.220	398.242		-			41.237	14.274		72.363	44.878		-	
Fisher's			Power	---		Power-50%	---		P-value	0.0358 y	Power	---		Power-50%	---		P-value	0.0103	
Stouffer's			Power	0.247		Power-50%	0.007		P-value	0.1652	Power	---		Power-50%	---		P-value	0.0151	

x At least one null hypothesis is rejected in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-82. Page 7. December 21, 1994

Table D-82. Invertebrate Abundance and Biomass. Cook Inlet/Kanai. Coarse Textured. August 1990. (Continued.)

Lacuna spp. - abundance (#/m^2)										Lacuna spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power		---		Power-50%		---	P-value	0.6552	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
50389C/50389	2	6	6.667	6.667	6	0.000	0.000	-	0.3632	6	0.040	0.040	6	0.000	0.000	-	0.3632		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			2.222	2.222		0.000	0.000	+			0.013	0.013		0.000	0.000	-			
Fisher's	Power		---		Power-50%		---	P-value	0.4028	Power		---		Power-50%		---	P-value	0.4028	
Stouffer's	Power		---		Power-50%		---	P-value	0.3045	Power		---		Power-50%		---	P-value	0.3045	
50389C/50389	3	6	36.667	20.276	6	0.000	0.000	+	0.0333	6	0.158	0.090	6	0.000	0.000	+	0.0302		
51091C/51091	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			12.222	6.759		0.000	0.000	+			0.053	0.030		0.000	0.000	-			
Fisher's	Power		---		Power-50%		---	P-value	0.0895	Power		---		Power-50%		---	P-value	0.0836	
Stouffer's	Power		0.000		Power-50%	0.000	---	P-value	0.1155	Power	0.000			Power-50%	0.000	---	P-value	0.1113	

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

Table D-82, Page 9. December 21, 1994

Littorina spp. - abundance (#/m^2)										Littorina spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	63.333	48.626	6	1236.667	421.368	-	0.0003	6	4.852	4.734	6	68.220	20.144	-	0.0071		
51091C/51091	1	6	13.333	6.146	6	0.000	0.000	+	0.1417	6	0.508	0.272	6	0.000	0.000	+	0.0775		
62802C/50226	1	6	183.333	101.149	6	31.667	31.667	+	0.0071	6	12.935	6.755	6	2.457	2.457	+	0.0284		
Habitat Means			86.666	51.974		422.778	151.012	+			6.098	3.920		23.559	7.534	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0110 _{xy}		Power	---		Power-50%	---	P-value	0.0201 _{xy}			
Stouffer's	Power		0.041		Power-50%	0.346	P-value	0.3213		Power	0.036		Power-50%	0.244	P-value	0.2085			
50389C/50389	2	6	330.000	312.100	6	1075.000	313.770	-	0.0377	6	11.758	10.800	6	35.320	11.024	-	0.0626		
51091C/51091	2	6	195.000	72.790	6	71.667	67.696	+	0.1037	6	12.560	4.777	6	1.847	1.809	+	0.3862		
62802C/50226	2	6	105.000	47.941	6	242.783	66.922	-	0.3149	6	4.083	1.675	6	30.652	13.349	-	0.0372		
Habitat Means			210.000	144.277		463.150	149.463	-			9.467	5.751		22.606	8.727	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0679		Power	---		Power-50%	---	P-value	0.0179			
Stouffer's	Power		0.005		Power-50%	0.230	P-value	0.1627		Power	---		Power-50%	---	P-value	0.0255			
50389C/50389	3	6	55.000	37.572	6	380.000	122.202	-	0.0388	6	0.985	0.459	6	11.580	5.084	-	0.0303		
51091C/51091	3	5	262.000	143.993	6	33.333	31.376	+	0.0066	5	3.852	1.541	6	3.720	3.706	+	0.9786		
62802C/50226	3	6	80.000	33.066	5	285.680	81.480	-	0.1494	6	3.268	2.140	5	19.159	4.645	-	0.0029		
Habitat Means			132.333	71.544		233.004	78.353	-			2.702	1.380		11.486	4.478	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0418 _x		Power	---		Power-50%	---	P-value	0.0009			
Stouffer's	Power		0.081		Power-50%	0.000	P-value	0.2421		Power	---		Power-50%	---	P-value	0.0009			

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

Table D-82. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. August 1990. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	63.333	48.626	6	1233.333	418.646	-	0.0003	6	4.852	4.734	6	68.203	20.131	-	0.0071		
51091C/51091	1	6	13.333	6.146	6	0.000	0.000	+	0.1409	6	0.508	0.272	6	0.000	0.000	-	0.0775		
62802C/50226	1	6	183.333	101.149	6	30.000	30.000	-	0.0068	6	12.935	6.755	6	2.407	2.407	-	0.0281		
Habitat Means			86.666	51.974		421.111	149.549	-			6.098	3.920		23.537	7.513	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0106xy		Power	---		Power-50%	---	P-value	0.0200xy			
Stouffer's		Power	0.040		Power-50%	0.345	P-value	0.3174		Power	0.033		Power-50%	0.256	P-value	0.2077			
50389C/50389	2	6	326.667	308.768	6	1045.000	312.151	-	0.0402	6	11.663	10.705	6	34.325	10.507	-	0.0687		
51091C/51091	2	6	195.000	72.790	6	70.000	68.020	+	0.0595	6	12.560	4.777	6	1.840	2.810	+	0.3788		
62802C/50226	2	6	105.000	47.941	6	242.783	66.922	-	0.3169	6	4.083	1.675	6	30.652	13.349	-	0.0346		
Habitat Means			208.889	143.166		452.594	149.031	-			9.435	5.719		22.272	8.555	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0726x		Power	---		Power-50%	---	P-value	0.0182			
Stouffer's		Power	0.010		Power-50%	0.234	P-value	0.2023		Power	---		Power-50%	---	P-value	0.0262			
50389C/50389	3	6	26.667	12.019	6	311.667	102.059	-	0.0271	6	0.835	0.413	6	10.853	5.205	-	0.0319		
51091C/51091	3	5	260.000	142.443	6	30.000	30.000	-	0.0019	5	3.928	1.524	6	3.693	3.693	-	0.9771		
62802C/50226	3	6	75.000	31.385	5	238.340	66.509	-	0.1422	6	3.178	2.087	5	17.041	3.535	-	0.0059		
Habitat Means			120.556	61.949		193.336	66.189	-			2.614	1.341		10.529	4.144	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0309x		Power	---		Power-50%	---	P-value	0.0016			
Stouffer's		Power	0.270		Power-50%	0.000	P-value	0.2752		Power	---		Power-50%	---	P-value	0.0015			

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.017	0.017	-	0.3632		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.050	0.050	-	0.3632		
Habitat Means			0.000	0.000		1.667	1.667	-			0.000	0.000		0.022	0.022	-			
Fisher's		Power	---		Power-50%	---	P-value	0.2231		Power	---		Power-50%	---	P-value	0.2231			
Stouffer's		Power	---		Power-50%	---	P-value	0.1356		Power	---		Power-50%	---	P-value	0.1356			
50389C/50389	2	6	3.333	3.333	6	30.000	10.328	-	0.0159	6	0.095	0.095	6	0.995	0.586	-	0.0235		
51091C/51091	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.007	0.007	-	0.3632		
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			1.111	1.111		10.556	3.998	-			0.032	0.032		0.334	0.198	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0248		Power	---		Power-50%	---	P-value	0.0333			
Stouffer's		Power	---		Power-50%	---	P-value	0.0340		Power	---		Power-50%	---	P-value	0.0407			
50389C/50389	3	6	28.333	26.384	6	68.333	53.004	-	0.2844	6	0.150	0.106	6	0.727	0.451	-	0.4165		
51091C/51091	3	5	2.000	2.000	6	3.333	2.108	-	0.9726	5	0.024	0.024	6	0.027	0.017	-	0.7855		
62802C/50226	3	6	5.000	3.416	5	47.340	18.814	-	1.0000	6	0.090	0.065	5	2.118	1.131	-	1.0000		
Habitat Means			11.778	10.600		39.669	24.642	-			0.088	0.065		0.957	0.533	-			
Fisher's		Power	0.012		Power-50%	0.220	P-value	0.3466		Power	0.022		Power-50%	0.610	P-value	0.3806			
Stouffer's		Power	0.019		Power-50%	0.296	P-value	0.2676		Power	0.027		Power-50%	0.672	P-value	0.2753			

x No trend was detected.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-82, Page 11, December 21, 1994

Table D-82. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Coarse Textured, August 1990. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	11.667	4.773	6	80.000	51.056	-	0.3846	6	0.405	0.310	6	3.907	3.320	-	0.5670		
51091C/51091	1	6	0.000	0.000	6	10.000	4.472	-	0.0289	6	0.000	0.000	6	0.068	0.053	-	0.0854		
62802C/50226	1	6	1.667	1.667	6	16.667	11.738	-	0.3551	6	0.000	0.000	6	0.462	0.360	-	0.1879		
Habitat Means			4.445	2.147		35.556	22.422	-			0.135	0.103		1.479	1.244	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0186		Power	---		Power-50%	---	P-value	0.0350			
Stouffer's		Power	---		Power-50%	0.417	P-value	0.0135		Power	---		Power-50%	---	P-value	0.0197			
50389C/50389	2	6	528.333	506.349	6	271.667	128.151	-	0.7640	6	20.257	20.011	6	39.670	19.394	-	0.5451		
51091C/51091	2	6	8.333	4.014	6	30.000	20.331	-	0.5354	6	0.030	0.028	6	0.842	0.806	-	0.6478		
62802C/50226	2	6	83.333	43.563	6	290.000	189.912	-	0.9412	6	3.780	2.719	6	180.182	109.463	-	0.3192		
Habitat Means			206.666	184.642		197.222	112.798	-			8.022	7.586		73.565	43.221	-			
Fisher's		Power	0.045		Power-50%	0.024	P-value	0.5303 y		Power	0.023		Power-50%	0.004	P-value	0.2021			
Stouffer's		Power	0.120		Power-50%	0.052	P-value	0.4217		Power	0.127		Power-50%	0.004	P-value	0.1113			
50389C/50389	3	6	5178.333	3939.714	6	906.667	230.256	-	0.5655	6	300.200	189.239	6	268.275	109.299	-	0.2321		
51091C/51091	3	5	44.000	30.430	6	56.667	50.706	-	0.9216	5	1.144	1.014	6	0.103	0.063	-	0.6317		
62802C/50226	3	6	460.000	392.980	5	565.000	79.278	-	0.1613	6	33.783	24.659	5	802.223	178.665	-	0.0040		
Habitat Means			1894.111	1454.375		509.445	120.080	-			111.709	71.637		356.867	96.009	-			
Fisher's		Power	0.000		Power-50%	0.002	P-value	0.2984 y		Power	0.000		Power-50%	0.000	P-value	0.3578xy			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.2630		Power	0.000		Power-50%	0.000	P-value	0.8275			

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	50.000	35.308	-	0.0868	6	0.000	0.000	6	0.045	0.034	-	0.0878		
51091C/51091	1	6	1.667	1.667	6	0.000	0.000	-	0.3632	6	0.002	0.002	6	0.000	0.000	-	0.3632		
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	-	1.0000	6	0.000	0.000	6	0.000	0.000	-	1.0000		
Habitat Means			0.556	0.556		16.667	11.769	-			0.001	0.001		0.015	0.011	-			
Fisher's		Power	0.001		Power-50%	---	P-value	0.2336		Power	0.001		Power-50%	---	P-value	0.2353			
Stouffer's		Power	0.000		Power-50%	---	P-value	0.3098		Power	0.000		Power-50%	---	P-value	0.3109			
50389C/50389	2	6	0.000	0.000	6	140.000	57.038	-	0.0060	6	0.000	0.000	6	0.158	0.063	-	0.0225		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	-	1.0000	6	0.000	0.000	6	0.000	0.000	-	1.0000		
62802C/50226	2	6	8.333	4.014	6	0.000	0.000	-	0.0781	6	0.005	0.005	6	0.000	0.000	-	0.2556		
Habitat Means			2.778	1.338		46.667	19.013	-			0.002	0.002		0.053	0.021	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0417x		Power	0.000		Power-50%	0.001	P-value	0.1003			
Stouffer's		Power	0.000		Power-50%	0.020	P-value	0.3425		Power	0.000		Power-50%	0.001	P-value	0.2917			
50389C/50389	3	6	1.667	1.667	6	4208.333	3488.000	-	0.0746	6	0.000	0.000	6	6.370	5.237	-	0.0898		
51091C/51091	3	5	20.000	15.166	6	3.333	3.333	-	0.1901	5	0.014	0.010	6	0.003	0.003	-	0.3299		
62802C/50226	3	6	590.000	586.009	5	0.000	0.000	-	0.2262	6	1.138	1.134	5	0.000	0.000	-	0.2326		
Habitat Means			203.889	200.947		1403.889	1163.778	-			0.384	0.381		2.124	1.747	-			
Fisher's		Power	0.030		Power-50%	0.078	P-value	0.1658xy		Power	0.014		Power-50%	0.056	P-value	0.2382xy			
Stouffer's		Power	0.052		Power-50%	0.208	P-value	0.3250		Power	0.034		Power-50%	0.165	P-value	0.3749			

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

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Table D-82, Page 14, December 21, 1994

Table D-82. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Coarse Textured, August 1990. (Continued.)

Pagurus spp. - abundance (#/m ²)										Pagurus spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
50389C/50389	3	6	8.333	8.333	6	31.667	20.235	-	0.1438	6	0.910	0.910	6	1.980	1.551	-	0.1937		
51091C/51091	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	3	6	0.000	0.000	5	26.000	16.613	-	0.1787	6	0.000	0.000	5	0.516	0.321	-	0.1779		
Habitat Means			2.778	2.778		19.222	12.283	-			0.303	0.303		0.832	0.624	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0746		Power	---		Power-50%	---	P-value	0.0917			
Stouffer's	Power		---		Power-50%	---	P-value	0.0452		Power	---		Power-50%	---	P-value	0.0544			

4. Use Fisher's and Stouffer's tests to determine if the direction of difference between habitat means is different than direction of overall tests.

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

6. Only one site pair.

Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
50389C/50389	3	6	3.333	3.333	6	0.000	0.000	o	0.3632	6	9.312	9.312	6	0.000	0.000	o	0.3632		
51091C/51091	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	3	6	0.000	0.000	5	2.000	2.000	-	0.3739	6	0.000	0.000	5	2.662	2.662	-	0.3739		
Habitat Means			1.111	1.111		0.667	0.667	-			3.104	3.104		0.887	0.887	+			
Fisher's	Power		---		Power-50%	---	P-value	0.5169		Power	---		Power-50%	---	P-value	0.5169			
Stouffer's	Power		---		Power-50%	---	P-value	0.5255		Power	---		Power-50%	---	P-value	0.5255			

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

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

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Table D-82. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Coarse Textured, August 1990. (Continued.)

Nucella lima - abundance (#/m ²)										Nucella lima - biomass (g/m ²)									
Site Pair		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
50389C/50389	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	3	6	0.000	0.000	5	2.000	2.000	-	0.3739	6	0.000	0.000	5	2.662	2.662	-	0.3739		
Habitat Means			0.000	0.000		0.667	0.667	-			0.000	0.000		0.887	0.887	-			
Fisher's	Power		---		Power-50%	---	P-value	0.4092		Power	---		Power-50%	---	P-value	0.4092			
Stouffer's	Power		---		Power-50%	---	P-value	0.2825		Power	---		Power-50%	---	P-value	0.2825			

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Table D-82. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. August 1990. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	978.333	935.024	6	23.333	11.738	+	0.9128	6	1.765	1.659	6	0.077	0.036	+	0.8485		
51091C/51091	1	6	728.333	306.044	6	1945.000	952.634	-	0.4904	6	16.213	7.643	6	12.702	6.435	+	0.9485		
62802C/50226	1	6	11.667	11.667	6	421.117	342.203	-	0.0707	6	0.103	0.103	6	3.566	2.759	-	0.0919		
Habitat Means			572.778	417.578		796.483	435.525	-			6.027	3.135		5.448	3.077	-			
Fisher's	Power		---		Power-50%			P-value	0.0976	Power	0.252		Power-50%	0.112	P-value	0.7702	x		
Stouffer's	Power		---		Power-50%		0.212	P-value	0.0717	Power	0.426		Power-50%	0.204	P-value	0.8291			
50389C/50389	2	6	51.667	23.154	6	205.000	147.801	-	0.8950	6	0.238	0.183	6	1.483	1.077	-	0.9351		
51091C/51091	2	6	816.667	430.416	6	1536.667	1330.387	-	0.6570	6	9.945	5.708	6	5.485	5.196	-	0.4449		
62802C/50226	2	6	0.000	0.000	6	772.883	374.708	-	0.0064	6	0.000	0.000	6	2.684	1.778	-	0.0055		
Habitat Means			289.445	151.190		838.183	617.632	-			3.394	1.964		3.217	2.684	-			
Fisher's	Power		---		Power-50%			P-value	0.0179	Power	---		Power-50%	---	P-value	0.0318	y		
Stouffer's	Power		---		Power-50%		0.019	P-value	0.0194	Power	---		Power-50%	---	P-value	0.0735			
50389C/50389	3	6	318.333	256.078	6	743.333	717.397	-	0.5090	6	0.747	0.466	6	1.724	1.534	-	0.5647		
51091C/51091	3	5	702.000	699.503	6	181.667	128.099	-	0.4414	5	14.604	14.604	6	0.245	0.143	-	0.5199		
62802C/50226	3	6	0.000	0.000	5	1006.000	557.643	-	0.1423	6	0.000	0.000	5	3.424	1.678	-	0.0046		
Habitat Means			340.111	318.527		643.667	467.713	-			5.117	5.023		1.798	1.118	-			
Fisher's	Power		0.000		Power-50%		0.012	P-value	0.2023	Power	---		Power-50%	---	P-value	0.0182	y		
Stouffer's	Power		0.000		Power-50%		0.022	P-value	0.1773	Power	---		Power-50%	---	P-value	0.0338			

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

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Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	25.000	25.000	6	235.000	233.006	-	0.6084	6	0.012	0.012	6	0.495	0.491	-	0.4706		
51091C/51091	1	6	0.000	0.000	6	6.667	4.216	-	0.1747	6	0.000	0.000	6	0.013	0.009	-	0.1759		
62802C/50226	1	6	0.000	0.000	6	6.667	3.333	-	0.0785	6	0.000	0.000	6	0.005	0.005	-	0.2556		
Habitat Means			8.333	8.333		82.778	80.185	-			0.004	0.004		0.171	0.168	-			
Fisher's	Power		---		Power-50%			P-value	0.0328	Power	---		Power-50%	---	P-value	0.0649			
Stouffer's	Power		---		Power-50%		---	P-value	0.0168	Power	---		Power-50%	---	P-value	0.0330			
50389C/50389	2	6	1.667	1.667	6	16.667	6.667	-	0.0584	6	0.000	0.000	6	0.070	0.070	-	0.2925		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	-	1.0000	6	0.000	0.000	6	0.000	0.000	-	1.0000		
62802C/50226	2	6	5.000	5.000	6	127.217	73.448	-	0.1557	6	0.005	0.005	6	1.157	0.738	-	0.2454		
Habitat Means			2.222	2.222		47.961	26.705	-			0.002	0.002		0.409	0.269	-			
Fisher's	Power		---		Power-50%			P-value	0.0350	Power	0.001		Power-50%	---	P-value	0.1509			
Stouffer's	Power		---		Power-50%		---	P-value	0.0236	Power	---		Power-50%	---	P-value	0.0894			
50389C/50389	3	6	21.667	21.667	6	196.667	182.824	-	0.2094	6	0.445	0.445	6	2.208	2.149	-	0.3515		
51091C/51091	3	5	0.000	0.000	6	0.000	0.000	-	1.0000	5	0.000	0.000	6	0.000	0.000	-	1.0000		
62802C/50226	3	6	73.333	71.352	5	414.340	102.745	-	0.0034	6	0.498	0.494	5	3.645	1.386	-	0.0035		
Habitat Means			31.667	31.006		203.669	95.190	-			0.314	0.313		1.951	1.178	-			
Fisher's	Power		---		Power-50%			P-value	0.0048	Power	---		Power-50%	---	P-value	0.0074			
Stouffer's	Power		---		Power-50%		0.011	P-value	0.0046	Power	---		Power-50%	---	P-value	0.0079			

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

Table D-82, Page 20, December 21, 1994

Table D-82. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. August 1990. (Continued.)

Errant polychaetes - abundance (#/m ²)										Errant polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	1	6	0.000	0.000	6	31.667	25.744	-	0.0457	6	0.000	0.000	6	0.042	0.042	-	0.2597		
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		10.556	8.581	-			0.000	0.000		0.014	0.014	-			
Fisher's		Power	0.001		Power-50%	---	P-value	0.1114		Power	0.000		Power-50%	---	P-value	0.3344			
Stouffer's		Power	0.000		Power-50%	---	P-value	0.1521		Power	0.000		Power-50%	---	P-value	0.2811			
50389C/50389	2	6	0.000	0.000	6	5.000	3.416	-	0.1784	6	0.000	0.000	6	0.001	0.001	-	0.1747		
51091C/51091	2	6	51.667	35.629	6	0.000	0.000	+	0.1761	6	0.030	0.024	6	0.000	0.000	+	0.1839		
62802C/50226	2	6	11.667	7.491	6	1.667	1.667	+	0.3756	6	0.008	0.008	6	0.993	0.993	-	0.6578		
Habitat Means			21.111	14.373		2.222	1.694	+			0.013	0.011		0.331	0.331	-			
Fisher's		Power	0.628		Power-50%	0.465	P-value	0.2108		Power	0.192		Power-50%	0.027	P-value	0.2946			
Stouffer's		Power	0.206		Power-50%	0.543	P-value	0.3044		Power	0.020		Power-50%	0.046	P-value	0.3568			
50389C/50389	3	6	70.000	51.251	6	553.333	276.522	-	0.1521	6	0.037	0.029	6	0.548	0.230	-	0.1581		
51091C/51091	3	5	168.000	155.673	6	28.333	19.047	-	0.6728	5	0.114	0.111	6	0.190	0.184	-	0.9933		
62802C/50226	3	6	283.333	216.205	5	85.000	48.631	+	0.3147	6	1.525	1.054	5	5.465	3.420	-	0.5091		
Habitat Means			173.778	141.043		222.222	114.733	+			0.559	0.398		2.068	1.278	-			
Fisher's		Power	0.006		Power-50%	0.061	P-value	0.4192	y	Power	0.031		Power-50%	0.008	P-value	0.1620			
Stouffer's		Power	0.002		Power-50%	0.076	P-value	0.4754		Power	0.154		Power-50%	0.008	P-value	0.1101			

Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	3.333	3.333	6	13.333	13.333	-	0.8058	6	0.003	0.003	6	0.063	0.063	-	0.6735		
Habitat Means			1.111	1.111		5.000	5.000	-			0.001	0.001		0.021	0.021	-			
Fisher's		Power	---		Power-50%	---	P-value	0.3578		Power	---		Power-50%	---	P-value	0.3232			
Stouffer's		Power	---		Power-50%	---	P-value	0.2513		Power	---		Power-50%	---	P-value	0.2165			
50389C/50389	2	6	138.333	138.333	6	30.000	20.656	+	0.4677	6	0.212	0.212	6	0.003	0.003	+	0.6789		
51091C/51091	2	6	0.000	0.000	6	103.333	103.333	-	0.4883	6	0.000	0.000	6	0.002	0.002	-	0.3632		
62802C/50226	2	6	240.000	186.637	6	0.000	0.000	+	0.1137	6	0.299	0.247	6	0.000	0.000	+	0.1482		
Habitat Means			126.111	108.323		44.444	41.330	+			0.170	0.153		0.002	0.002	+			
Fisher's		Power	0.113		Power-50%	0.027	P-value	0.1626		Power	0.017		Power-50%	0.003	P-value	0.2557			
Stouffer's		Power	0.003		Power-50%	0.033	P-value	0.1409		Power	0.000		Power-50%	0.009	P-value	0.2415			
50389C/50389	3	6	223.333	169.089	6	8930.000	1285.885	-	0.0142	6	0.402	0.325	6	9.733	9.151	-	0.0311		
51091C/51091	3	5	72.000	72.000	6	0.000	0.000	+	0.4575	5	0.114	0.114	6	0.000	0.000	-	0.4501		
62802C/50226	3	6	1940.000	724.408	5	22.000	19.596	-	0.0021	6	3.017	1.184	5	0.000	0.000	+	0.0005		
Habitat Means			745.111	321.832		2984.000	1768.494	+			1.178	0.541		3.244	3.050	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0105	w	Power	---		Power-50%	---	P-value	0.0033	w		
Stouffer's		Power	0.008		Power-50%	0.065	P-value	0.1604		Power	---		Power-50%	---	P-value	0.0766			

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

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Table D-82, Page 22, December 21, 1994

Table D-82. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. August 1990. (Continued.)

Oligochaeta - abundance (#/m^2)										Oligochaeta - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	3680.000	2426.168	6	2026.667	1674.413	+	0.4837	6	0.582	0.302	6	0.717	0.393	-	0.6210		
51091C/51091	1	6	3005.000	2166.513	6	3190.000	1691.896	-	0.9373	6	3.365	2.653	6	1.240	0.475	+	0.3496		
62802C/50226	1	6	226.667	164.796	6	293.333	179.846	-	0.9774	6	0.057	0.038	6	0.308	0.199	-	0.7241		
Habitat Means			2303.889	1585.826		1836.667	1182.052	-			1.335	0.998		0.755	0.356	-			
Fisher's	Power		0.000		Power-50%	0.033	P-value	0.7438	y	Power	0.000		Power-50%	0.019	P-value	0.5756	y		
Stouffer's	Power		0.000		Power-50%	0.203	P-value	0.6313		Power	0.000		Power-50%	0.158	P-value	0.4899			
50389C/50389	2	6	700.000	210.824	6	621.667	293.909	+	0.7014	6	0.533	0.263	6	0.287	0.096	+	0.7680		
51091C/51091	2	6	255.000	134.034	6	12815.000	4176.802	-	0.0056	6	0.018	0.008	6	4.788	2.350	-	0.0004		
62802C/50226	2	6	138.333	105.433	6	1218.333	435.985	-	0.3823	6	0.085	0.059	6	0.375	0.148	-	0.1097		
Habitat Means			364.444	150.097		4885.000	1635.565	-			0.212	0.110		1.817	0.865	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0141		Power	---		Power-50%	---	P-value	0.0006			
Stouffer's	Power		---		Power-50%	0.006	P-value	0.0380		Power	---		Power-50%	---	P-value	0.0036			
50389C/50389	3	6	1906.667	848.507	6	643.333	524.173	-	0.1315	6	1.288	0.714	6	0.237	0.192	-	0.1379		
51091C/51091	3	5	446.000	416.156	6	10563.333	3017.040	-	0.0001	5	0.032	0.027	6	4.108	1.243	-	0.0002		
62802C/50226	3	6	286.667	209.407	5	3125.660	1320.377	-	0.0058	6	0.022	0.020	5	1.549	0.828	-	0.0050		
Habitat Means			879.778	491.357		4777.442	1620.530	-			0.447	0.234		1.965	0.754	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0000		Power	---		Power-50%	---	P-value	0.0000			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0017		Power	---		Power-50%	---	P-value	0.0019			

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

z Only one site pair.

Total Invertebrates - abundance (#/m^2)										Total Invertebrates - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	4938.333	2563.622	6	4993.333	2957.181	-	0.9846	6	11.705	5.658	6	194.866	105.301	-	0.0093		
51091C/51091	1	6	4030.000	2141.141	6	5233.333	1650.072	-	0.6740	6	20.125	6.998	6	14.077	6.510	-	0.4483		
62802C/50226	1	6	815.000	269.243	6	2059.450	1169.100	-	0.6635	6	18.709	9.847	6	49.921	44.702	-	0.4740		
Habitat Means			3261.111	1658.002		4095.372	1925.451	-			16.846	7.501		86.288	52.171	-			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.4460		Power	---		Power-50%	---	P-value	0.0282			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.3056		Power	---		Power-50%	---	P-value	0.0621			
50389C/50389	2	6	2010.000	921.502	6	3563.333	1017.224	-	0.3631	6	40.157	31.804	6	161.635	90.404	-	0.0481		
51091C/51091	2	6	1866.667	612.077	6	15008.333	4250.756	-	0.0022	6	22.589	5.352	6	42.714	30.788	-	0.7534		
62802C/50226	2	6	2910.000	761.481	6	3930.783	1033.033	-	0.4510	6	42.557	15.923	6	254.643	128.278	-	0.4274		
Habitat Means			2262.222	765.020		7500.816	2100.338	-			35.101	17.693		152.997	83.157	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0028		Power	---		Power-50%	---	P-value	0.0518			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0050		Power	---		Power-50%	---	P-value	0.0369			
50389C/50389	3	6	9746.667	5918.528	6	18873.334	12859.088	-	0.3796	6	340.008	203.920	6	427.427	111.200	-	0.1207		
51091C/51091	3	5	2736.000	1338.158	6	23001.666	8943.075	-	0.0692	5	26.570	13.903	6	62.538	31.082	-	0.5279		
62802C/50226	3	6	12373.333	2920.912	5	9514.680	1962.621	+	0.7917	6	184.994	73.307	5	1034.253	260.973	-	0.0043		
Habitat Means			8285.333	3392.533		17129.893	7921.595	-			183.857	97.043		508.073	134.418	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0866		Power	---		Power-50%	---	P-value	0.0022			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.1042		Power	---		Power-50%	---	P-value	0.0012			

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

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

z Only one site pair.

Table D-82, Page 23, December 21, 1994																	

Table D-82, Page 23, December 21, 1994

Table D-82, Page 24, December 21, 1994

Table D-83. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	15.333	12.222	-	0.0000	6	0.000	0.000	6	0.000	0.000	-	0.0000		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	-	1.0000	6	0.000	0.000	6	0.000	0.000	-	1.0000		
62802C/50226	1	6	0.000	0.000	6	15.000	13.102	-	0.1970	6	0.000	0.000	6	5.002	4.902	-	0.1906		
Habitat Means			0.000	0.000		11.111	8.442	-			0.000	0.000		4.075	3.360	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0920	Power	---		Power-50%	---		P-value	0.0897		
Stouffer's	Power	---			Power-50%	---		P-value	0.0551	Power	---		Power-50%	---		P-value	0.0537		
50389C/50389	2	6	13.333	13.333	6	13.817	8.122	-	0.4311	6	1.223	1.223	6	1.517	0.868	-	0.3196		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	-	1.0000	6	0.000	0.000	6	0.000	0.000	-	1.0000		
62802C/50226	2	6	8.883	8.883	6	73.333	28.245	-	0.0224	6	0.631	0.631	6	7.367	2.655	-	0.0165		
Habitat Means			7.405	7.405		29.050	12.122	-			0.618	0.618		2.961	1.174	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0366	Power	---		Power-50%	---		P-value	0.0232		
Stouffer's	Power	---			Power-50%	---		P-value	0.0273	Power	---		Power-50%	---		P-value	0.0173		
50389C/50389	3	5	2.000	2.000	6	20.000	12.910	-	0.2470	5	0.142	0.142	6	3.487	1.608	-	0.2434		
51091C/51091	3	6	0.000	0.000	6	0.000	0.000	-	1.0000	6	0.000	0.000	6	0.000	0.000	-	1.0000		
62802C/50226	3	6	0.000	0.000	6	58.333	29.259	-	0.0011	6	0.000	0.000	6	8.082	3.952	-	0.0001		
Habitat Means			0.667	0.667		26.111	14.056	-			0.047	0.047		3.856	1.853	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0022	Power	---		Power-50%	---		P-value	0.0003		
Stouffer's	Power	---			Power-50%	---		P-value	0.0029	Power	---		Power-50%	---		P-value	0.0007		

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

Table D-83, Page 1, December 21, 1994

Lottia pelta - abundance (#/m ²)										Lottia pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	-	1.0000	6	0.000	0.000	6	0.000	0.000	-	1.0000		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	-	1.0000	6	0.000	0.000	6	0.000	0.000	-	1.0000		
62802C/50226	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.083	0.083	-	0.3632		
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.028	0.028	-			
Fisher's	Power	---			Power-50%	---		P-value	0.4028	Power	---		Power-50%	---		P-value	0.4028		
Stouffer's	Power	---			Power-50%	---		P-value	0.2781	Power	---		Power-50%	---		P-value	0.2781		
50389C/50389	2	6	0.000	0.000	6	5.483	3.847	-	0.1798	6	0.000	0.000	6	0.679	0.527	-	0.1768		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	-	1.0000	6	0.000	0.000	6	0.000	0.000	-	1.0000		
62802C/50226	2	6	0.000	0.000	6	3.333	2.108	-	0.1747	6	0.000	0.000	6	0.420	0.276	-	0.1750		
Habitat Means			0.000	0.000		2.939	1.985	-			0.000	0.000		0.366	0.268	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0859	Power	---		Power-50%	---		P-value	0.0850		
Stouffer's	Power	---			Power-50%	---		P-value	0.0512	Power	---		Power-50%	---		P-value	0.0507		
50389C/50389	3	5	0.000	0.000	6	8.333	4.773	-	0.0823	5	0.000	0.000	6	2.247	1.322	-	0.0775		
51091C/51091	3	6	0.000	0.000	6	0.000	0.000	-	1.0000	6	0.000	0.000	6	0.000	0.000	-	1.0000		
62802C/50226	3	6	0.000	0.000	6	18.333	14.472	-	0.0974	6	0.000	0.000	6	4.175	3.367	-	0.0803		
Habitat Means			0.000	0.000		8.889	6.415	-			0.000	0.000		2.141	1.563	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0318	Power	---		Power-50%	---		P-value	0.0263		
Stouffer's	Power	---			Power-50%	---		P-value	0.0201	Power	---		Power-50%	---		P-value	0.0168		

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

Table D-83, Page 2, December 21, 1994

Table D-83. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Coarse Textured, May 1991. (Continued.)

Tectura persona - abundance (#/m^2)

Site Pair	MVD	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	18.333	12.225	-	0.1759
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	13.333	13.333	-	0.3632
Habitat Means			0.000	0.000		10.555	8.519	-	
Fisher's		Power	0.989		Power-50%	---	P-value	0.1397	
Stouffer's		Power	---		Power-50%	---	P-value	0.0885	
50389C/50389	2	6	10.000	10.000	6	5.000	5.000	+	0.9019
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	8.883	8.883	6	50.000	28.752	-	0.2252
Habitat Means			6.294	6.294		18.333	11.251	-	
Fisher's		Power	0.002		Power-50%	---	P-value	0.3252	
Stouffer's		Power	0.000		Power-50%	---	P-value	0.2370	
50389C/50389	3	5	2.000	2.000	6	0.000	0.000	-	0.3739
51091C/51091	3	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	6	36.667	31.056	-	0.1862
Habitat Means			0.667	0.667		12.222	10.352	-	
Fisher's		Power	0.006		Power-50%	---	P-value	0.3646	
Stouffer's		Power	0.000		Power-50%	---	P-value	0.3611	

Tectura persona - biomass (g/m^2)

N	C	SE	N	O	SE	D	P
6	0.000	0.000	6	7.222	5.178	-	0.1753
6	0.000	0.000	6	0.000	0.000	o	1.0000
6	0.000	0.000	6	4.918	4.918	-	0.3632
	0.000	0.000		4.047	3.365	-	
Power	0.950		Power-50%	---	P-value	0.1394	
Power	---		Power-50%	---	P-value	0.0883	
6	1.097	1.097	6	0.557	0.557	+	0.9559
6	0.000	0.000	6	0.000	0.000	o	1.0000
6	0.631	0.631	6	5.038	2.723	-	0.2257
	0.576	0.576		1.865	1.093	-	
Power	0.006		Power-50%	---	P-value	0.3163	
Power	0.002		Power-50%	---	P-value	0.2257	
5	0.142	0.142	6	0.000	0.000	-	0.3739
6	0.000	0.000	6	0.000	0.000	o	1.0000
6	0.000	0.000	6	3.662	3.324	-	0.1799
	0.047	0.047		1.221	1.108	-	
Power	0.003		Power-50%	---	P-value	0.3577	
Power	0.000		Power-50%	---	P-value	0.3565	

* At least one site pair p value < 0.001 in opposite direction of overall trend.

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

z Only one site pair.

Table D-83, Page 3, December 21, 1994

Tectura scutum - abundance (#/m^2)

Site Pair	MVD	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000	
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	1.667	1.667	-	0.3632
Habitat Means			0.000	0.000		0.556	0.556	-	
Fisher's		Power	---		Power-50%	---	P-value	0.4028	
Stouffer's		Power	---		Power-50%	---	P-value	0.2781	
50389C/50389	3	5	0.000	0.000	6	1.667	1.667	-	0.3632
51091C/51091	3	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.556	0.556	-	
Fisher's		Power	---		Power-50%	---	P-value	0.4028	
Stouffer's		Power	---		Power-50%	---	P-value	0.3045	

Tectura scutum - biomass (g/m^2)

N	C	SE	N	O	SE	D	P
6	0.000	0.000	6	0.000	0.000	o	1.0000
6	0.000	0.000	6	0.000	0.000	o	1.0000
6	0.000	0.000	6	0.000	0.000	o	1.0000
	0.000	0.000		0.000	0.000	o	
Power	---		Power-50%	---	P-value	0.6552	
Power	---		Power-50%	---	P-value	0.5000	
6	0.000	0.000	6	0.000	0.000	o	1.0000
6	0.000	0.000	6	0.000	0.000	o	1.0000
6	0.000	0.000	6	0.128	0.128	-	0.3632
	0.000	0.000		0.043	0.043	-	
Power	---		Power-50%	---	P-value	0.4028	
Power	---		Power-50%	---	P-value	0.2781	
5	0.000	0.000	6	0.377	0.377	-	0.3632
6	0.000	0.000	6	0.000	0.000	o	1.0000
6	0.000	0.000	6	0.000	0.000	o	1.0000
	0.000	0.000		0.126	0.126	-	
Power	---		Power-50%	---	P-value	0.4028	
Power	---		Power-50%	---	P-value	0.3045	

x At least one site pair p value < 0.001 in opposite direction of overall test.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-83, Page 3, December 21, 1994

Table D-83. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

Balanomorphs - abundance (#/m ²)										Balanomorphs - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	838.333	717.061	-	0.1121	6	0.000	0.000	6	110.373	89.090	-	0.0774		
51091C/51091	1	6	55.000	55.000	6	396.667	396.667	-	0.5098	6	1.055	1.055	6	17.890	17.890	-	0.8493		
62802C/50226	1	6	185.483	143.882	6	317.217	302.665	-	0.7988	6	11.777	7.525	6	34.155	33.633	-	0.6346		
Habitat Means			80.161	66.294		517.406	472.131	-			4.277	2.860		54.139	46.871	-			
Fisher's		Power	0.195		Power-50%	0.072	P-value	0.1113		Power	0.133		Power-50%	0.098	P-value	0.1069			
Stouffer's		Power	---		Power-50%	0.150	P-value	0.0811		Power	---		Power-50%	---	P-value	0.0837			
50389C/50389	2	6	0.000	0.000	6	456.383	152.628	-	0.0001	6	0.000	0.000	6	57.878	21.046	-	0.0001		
51091C/51091	2	6	416.667	416.667	6	6.667	6.667	+	0.5652	6	45.828	45.828	6	0.200	0.200	+	0.6363		
62802C/50226	2	6	1871.433	1318.008	6	521.667	244.941	+	0.2892	6	80.201	38.910	6	35.700	12.676	+	0.5825		
Habitat Means			762.700	578.225		328.239	134.745	+			42.010	28.246		31.259	11.307	+			
Fisher's		Power	0.061		Power-50%	0.008	P-value	0.3804x		Power	0.021		Power-50%	0.000	P-value	0.3752x			
Stouffer's		Power	0.012		Power-50%	0.006	P-value	0.8864		Power	0.004		Power-50%	0.000	P-value	0.9442			
50389C/50389	3	5	14.000	14.000	6	420.000	116.847	-	0.0001	5	0.248	0.248	6	39.607	22.229	-	0.0001		
51091C/51091	3	6	0.000	0.000	6	40.750	40.750	-	0.2995	6	0.000	0.000	6	0.588	0.588	-	0.2580		
62802C/50226	3	6	1621.650	571.769	6	3897.233	1355.947	-	0.1459	6	68.212	29.621	6	151.626	45.091	-	0.2947		
Habitat Means			545.217	195.256		1452.661	504.515	-			22.820	9.956		63.940	22.636	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0001			
Stouffer's		Power	---		Power-50%	0.002	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0003			

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

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

Only one site pair.

Table D 83, Page 5, December 21, 1994

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	11.667	11.667	-	0.3632	6	0.000	0.000	6	0.115	0.115	-	0.3632		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	0.000	0.000	6	38.333	38.333	-	0.3632	6	0.000	0.000	6	0.588	0.588	-	0.3632		
Habitat Means			0.000	0.000		16.667	16.667	-			0.000	0.000		0.234	0.234	-			
Fisher's		Power	---		Power-50%	---	P-value	0.2231		Power	---		Power-50%	---	P-value	0.2231			
Stouffer's		Power	---		Power-50%	---	P-value	0.1356		Power	---		Power-50%	---	P-value	0.1356			
50389C/50389	2	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.042	0.042	-	0.3632		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.003	0.003	-	0.3632		
Habitat Means			0.000	0.000		1.667	1.667	-			0.000	0.000		0.015	0.015	-			
Fisher's		Power	---		Power-50%	---	P-value	0.2231		Power	---		Power-50%	---	P-value	0.2231			
Stouffer's		Power	---		Power-50%	---	P-value	0.1356		Power	---		Power-50%	---	P-value	0.1356			
50389C/50389	3	5	6.000	6.000	6	86.667	86.667	-	0.7919	5	0.066	0.066	6	0.760	0.760	-	0.8993		
51091C/51091	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	3	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.007	0.007	-	0.3632		
Habitat Means			2.000	2.000		29.445	29.445	-			0.022	0.022		0.256	0.256	-			
Fisher's		Power	---		Power-50%	---	P-value	0.3543		Power	---		Power-50%	---	P-value	0.3802			
Stouffer's		Power	---		Power-50%	---	P-value	0.2306		Power	---		Power-50%	---	P-value	0.2548			

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

Table D-83, Page 5, December 21, 1994

Table D-83, Page 6, December 21, 1994

Table D-83. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Coarse Textured, May 1991. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	416.667	400.755	-	0.0843	6	0.000	0.000	6	66.512	65.765	-	0.0936		
51091C/51091	1	6	45.000	45.000	6	280.000	280.000	-	0.8313	6	0.947	0.947	6	12.382	12.382	-	0.8596		
62802C/50226	1	6	24.933	15.819	6	133.333	131.343	-	0.8118	6	7.053	4.096	6	19.125	19.069	-	0.5471		
Habitat Means			23.311	20.273		276.667	270.699	-			2.667	1.681		32.673	32.405	-			
Fisher's	Power		0.254		Power-50%	0.217	P-value	0.1293		Power	0.117		Power-50%	0.211	P-value	0.1086			
Stouffer's	Power		0.446		Power-50%	0.308	P-value	0.1085		Power	---		Power-50%	---	P-value	0.0772			
50389C/50389	2	6	0.000	0.000	6	145.667	47.904	-	0.0002	6	0.000	0.000	6	24.519	10.662	-	0.0001		
51091C/51091	2	6	400.000	400.000	6	5.000	5.000	+	0.5105	6	45.702	45.702	6	0.172	0.172	-	0.6569		
62802C/50226	2	6	33.333	17.256	6	71.667	26.760	-	0.3486	6	7.943	3.892	6	12.533	5.496	-	0.5957		
Habitat Means			144.444	139.085		74.111	26.555	-			17.882	16.531		12.408	5.443	-			
Fisher's	Power	---			Power-50%	---	P-value	0.0010	y	Power	---		Power-50%	---	P-value	0.0008	y		
Stouffer's	Power	---			Power-50%	0.261	P-value	0.0091		Power	---		Power-50%	---	P-value	0.0006			
50389C/50389	3	5	2.000	2.000	6	90.000	32.660	-	0.0001	5	0.016	0.016	6	13.467	6.483	-	0.0001		
51091C/51091	3	6	0.000	0.000	6	3.333	3.333	-	0.3863	6	0.000	0.000	6	0.072	0.072	-	0.2987		
62802C/50226	3	6	31.667	8.724	6	265.000	136.302	-	0.0149	6	6.990	2.467	6	27.780	11.978	-	0.3788		
Habitat Means			11.222	3.575		119.444	57.432	-			2.335	0.828		13.773	6.178	-			
Fisher's	Power	---			Power-50%	---	P-value	0.0000		Power	---		Power-50%	---	P-value	0.0001			
Stouffer's	Power	---			Power-50%	0.014	P-value	0.0000		Power	---		Power-50%	---	P-value	0.0005			

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

z Only one site pair.

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	388.333	287.337	-	0.0586	6	0.000	0.000	6	39.432	21.119	-	0.0759		
51091C/51091	1	6	0.000	0.000	6	60.000	60.000	-	0.7634	6	0.000	0.000	6	3.677	3.677	-	0.3632		
62802C/50226	1	6	143.883	112.358	6	135.000	135.000	+	0.9644	6	4.357	3.353	6	14.052	14.052	-	0.2557		
Habitat Means			47.961	37.453		194.444	160.779	-			1.452	1.118		19.054	12.949	-			
Fisher's	Power		0.940		Power-50%	0.001	P-value	0.1125		Power	---		Power-50%	---	P-value	0.0289			
Stouffer's	Power		0.983		Power-50%	0.000	P-value	0.1170		Power	---		Power-50%	---	P-value	0.0138			
50389C/50389	2	6	0.000	0.000	6	273.817	102.094	-	0.0053	6	0.000	0.000	6	32.219	11.513	-	0.0045		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	2	6	1131.033	684.492	6	411.667	220.929	+	0.3388	6	64.846	30.221	6	21.733	7.118	+	0.5464		
Habitat Means			377.011	228.164		228.495	107.674	-			21.615	10.074		17.984	6.210	-			
Fisher's	Power	---			Power-50%	---	P-value	0.0341	y	Power	---		Power-50%	---	P-value	0.0273	y		
Stouffer's	Power		0.003		Power-50%	0.000	P-value	0.1710		Power	0.002		Power-50%	0.000	P-value	0.1134			
50389C/50389	3	5	6.000	6.000	6	181.667	86.078	-	0.1029	5	0.166	0.166	6	23.573	15.902	-	0.0818		
51091C/51091	3	6	0.000	0.000	6	6.667	6.667	-	0.3632	6	0.000	0.000	6	0.298	0.298	-	0.3632		
62802C/50226	3	6	1243.433	519.468	6	2925.000	1032.420	-	0.1682	6	56.205	27.533	6	114.123	31.699	-	0.2424		
Habitat Means			416.478	175.156		1037.778	375.055	-			18.790	9.233		45.998	15.966	-			
Fisher's	Power	---			Power-50%	---	P-value	0.0265		Power	---		Power-50%	---	P-value	0.0293			
Stouffer's	Power	---			Power-50%	0.064	P-value	0.0114		Power	---		Power-50%	---	P-value	0.0038			

Table D-83. Page 7. December 21, 1996

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

Table D-83, Page 8. December 21, 1994

Table D-83. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

Lacuna spp. - abundance (#/m ²)										Lacuna spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
50389C/50389	2	6	8.883	8.883	6	0.000	0.000	+	0.3632	6	0.133	0.133	6	0.000	0.000	+	0.3632		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			2.961	2.961		0.000	0.000	+			0.044	0.044		0.000	0.000	+			
Fisher's		Power	---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028			
Stouffer's		Power	---		Power-50%	---	P-value	0.3045		Power	---		Power-50%	---	P-value	0.3045			
50389C/50389	3	5	0.000	0.000	6	1.667	1.667	-	0.3632	5	0.000	0.000	6	0.040	0.040	-	0.3632		
51091C/51091	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	3	6	0.000	0.000	6	8.333	5.426	-	0.1757	6	0.000	0.000	6	0.122	0.089	-	0.1769		
Habitat Means			0.000	0.000		3.333	2.364	-			0.000	0.000		0.054	0.043	-			
Fisher's		Power	0.992		Power-50%	---	P-value	0.1396		Power	0.929		Power-50%	---	P-value	0.1402			
Stouffer's		Power	---		Power-50%	---	P-value	0.0825		Power	---		Power-50%	---	P-value	0.0829			

Littorina spp. - abundance (#/m ²)										Littorina spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	7.267	7.267	6	178.667	86.513	-	0.1664	6	1.168	1.168	6	8.265	4.822	-	0.0033		
51091C/51091	1	6	67.217	57.222	6	160.000	160.000	-	0.4486	6	1.338	1.195	6	19.982	19.982	-	0.7612		
62802C/50226	1	6	92.783	85.549	6	12.217	8.842	+	0.5101	6	1.543	1.468	6	0.157	0.157	+	0.3538		
Habitat Means			55.756	50.013		116.961	85.118	-			1.350	1.277		9.468	8.320	-			
Fisher's		Power	0.060		Power-50%	0.191	P-value	0.2004		Power	---		Power-50%	---	P-value	0.0192			
Stouffer's		Power	0.009		Power-50%	0.298	P-value	0.2290		Power	0.000		Power-50%	0.249	P-value	0.1132			
50389C/50389	2	6	246.533	151.550	6	1008.100	420.796	-	0.1048	6	18.287	11.964	6	20.141	5.585	-	0.8270		
51091C/51091	2	6	568.333	560.354	6	10.550	10.550	+	0.2301	6	3.147	2.990	6	0.773	0.773	+	0.7797		
62802C/50226	2	6	449.850	324.522	6	95.550	50.194	+	0.4426	6	6.319	3.547	6	6.939	3.966	-	0.9418		
Habitat Means			421.572	345.475		371.400	160.513	-			9.251	6.167		9.284	3.441	-			
Fisher's		Power	0.008		Power-50%	0.049	P-value	0.2813		Power	0.044		Power-50%	0.079	P-value	0.6415			
Stouffer's		Power	0.033		Power-50%	0.173	P-value	0.4203		Power	0.039		Power-50%	0.211	P-value	0.4895			
50389C/50389	3	5	316.000	303.654	6	663.883	192.795	-	0.1570	5	5.352	5.101	6	14.354	4.148	-	0.0292		
51091C/51091	3	6	105.550	77.286	6	71.967	69.986	+	0.8841	6	3.302	2.416	6	0.939	0.923	-	0.0309		
62802C/50226	3	6	227.767	122.477	6	590.567	163.291	-	0.1229	6	2.392	1.116	6	26.728	8.553	-	0.0533		
Habitat Means			216.439	167.806		442.139	142.024	-			3.682	2.878		14.007	4.541	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0557		Power	---		Power-50%	---	P-value	0.0153*			
Stouffer's		Power	---		Power-50%	0.015	P-value	0.0427		Power	---		Power-50%	---	P-value	0.0856			

a. At least one site pair is significantly different from the others.
 y. Direction of difference between habitat means is different than direction of overall tests.
 z. Only one site pair.

Table D-83, Page 6. December 21, 1994

Table D-83. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	7.267	7.267	6	178.667	86.513	-	0.1639	6	1.168	1.168	6	8.265	4.822	-	0.0033		
51091C/51091	1	6	67.217	57.222	6	158.333	158.333	-	0.4540	6	1.338	1.195	6	19.978	19.978	-	0.7612		
62802C/50226	1	6	92.783	85.549	6	12.217	8.842	+	0.5075	6	1.543	1.468	6	0.157	0.157	+	0.3538		
Habitat Means			55.756	50.013		116.406	84.563	-			1.350	1.277		9.467	8.319	-			
Fisher's		Power	0.060		Power-50%	0.180	P-value	0.2002		Power	---		Power-50%	---	P-value	0.0192			
Stouffer's		Power	0.010		Power-50%	0.301	P-value	0.2298		Power	0.001		Power-50%	0.253	P-value	0.1132			
50389C/50389	2	6	240.767	152.923	6	993.100	419.043	-	0.1056	6	18.194	11.983	6	20.071	5.586	-	0.8250		
51091C/51091	2	6	558.333	550.354	6	10.550	10.550	+	0.2338	6	3.100	2.943	6	0.773	0.773	+	0.7840		
62802C/50226	2	6	449.850	324.522	6	95.550	50.194	+	0.4381	6	6.319	3.547	6	6.939	3.966	-	0.9418		
Habitat Means			416.317	342.600		366.400	159.929	+			9.204	6.158		9.261	3.442	-			
Fisher's		Power	0.006		Power-50%	0.048	P-value	0.2822		Power	0.045		Power-50%	0.064	P-value	0.6399			
Stouffer's		Power	0.036		Power-50%	0.171	P-value	0.4195		Power	0.051		Power-50%	0.201	P-value	0.4878			
50389C/50389	3	5	310.000	300.100	6	628.883	186.000	-	0.1857	5	5.262	5.045	6	13.225	3.784	-	0.0295		
51091C/51091	3	6	105.550	77.286	6	71.967	69.986	-	0.8820	6	3.302	2.416	6	0.939	0.923	-	0.0303		
62802C/50226	3	6	227.767	122.477	6	553.900	159.370	-	0.1567	6	2.392	1.116	6	26.446	8.580	-	0.0534		
Habitat Means			214.439	166.621		418.250	138.452	-			3.652	2.859		13.537	4.429	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0881		Power	---		Power-50%	---	P-value	0.0154			
Stouffer's		Power	---		Power-50%	0.021	P-value	0.0564		Power	---		Power-50%	---	P-value	0.0866			

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.003	0.003	-	0.3632		
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.001	0.001	-			
Fisher's		Power	---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028			
Stouffer's		Power	---		Power-50%	---	P-value	0.3201		Power	---		Power-50%	---	P-value	0.3201			
50389C/50389	2	6	5.767	4.105	6	15.000	4.282	-	0.0962	6	0.093	0.062	6	0.070	0.056	+	0.6138		
51091C/51091	2	6	10.000	10.000	6	0.000	0.000	+	0.3632	6	0.047	0.047	6	0.000	0.000	-	0.3632		
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			5.256	4.702		5.000	1.427	-			0.047	0.036		0.023	0.019	+			
Fisher's		Power	0.000		Power-50%	0.397	P-value	0.2488 y		Power	0.391		Power-50%	0.552	P-value	0.3062			
Stouffer's		Power	0.000		Power-50%	0.399	P-value	0.3196		Power	0.496		Power-50%	0.514	P-value	0.2263			
50389C/50389	3	5	6.000	4.000	6	35.000	11.762	-	0.0768	5	0.090	0.061	6	1.128	0.637	-	0.1434		
51091C/51091	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	3	6	0.000	0.000	6	36.667	14.981	-	0.0084	6	0.000	0.000	6	0.282	0.170	-	0.0346		
Habitat Means			2.000	1.333		23.889	8.914	-			0.030	0.020		0.470	0.269	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0044		Power	---		Power-50%	---	P-value	0.0219			
Stouffer's		Power	---		Power-50%	0.022	P-value	0.0034		Power	---		Power-50%	---	P-value	0.0141			

* At least one site pair p-value < 0.001 in opposite direction of overall trend.
 y Direction of difference between habitat means is different than direction of overall trend.
 o Only one site pair.

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Table D-83. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	5.750	3.705	6	36.333	21.263	-	0.3289	6	0.069	0.046	6	1.281	0.904	-	0.4198		
51091C/51091	1	6	21.667	21.667	6	50.550	38.820	-	0.3561	6	0.600	0.600	6	10.973	9.984	-	0.2675		
62802C/50226	1	6	6.667	6.667	6	40.567	19.026	-	0.2800	6	0.200	0.200	6	9.531	7.175	-	0.1739		
Habitat Means			11.361	10.680		42.483	26.370	-			0.290	0.282		7.262	6.021	-			
Fisher's	Power		---		Power-50%		---	P-value	0.0886	Power		---		Power-50%		---	P-value	0.0613	
Stouffer's	Power		---		Power-50%		0.959	P-value	0.0424	Power		---		Power-50%		---	P-value	0.0284	
50389C/50389	2	6	410.567	354.301	6	450.000	113.755	-	0.8883	6	36.197	33.807	6	28.521	15.094	-	0.6222		
51091C/51091	2	6	50.000	46.116	6	1.667	1.667	+	0.8633	6	15.780	15.732	6	0.167	0.167	-	0.4231		
62802C/50226	2	6	103.883	62.221	6	328.333	296.551	-	0.4264	6	2.557	1.973	6	197.628	162.712	-	0.2450		
Habitat Means			188.150	154.213		260.000	137.324	-			18.178	17.171		75.439	59.324	+			
Fisher's	Power		0.001		Power-50%		0.018	P-value	0.4409	Power	0.002		Power-50%		0.004	P-value	0.4572 y		
Stouffer's	Power		0.001		Power-50%		0.035	P-value	0.3067	Power	0.004		Power-50%		0.004	P-value	0.5254		
50389C/50389	3	5	1513.340	1501.675	6	464.450	171.980	+	0.1641	5	129.485	127.946	6	87.980	47.097	-	0.2055		
51091C/51091	3	6	17.217	9.596	6	36.067	20.448	-	0.7980	6	1.171	0.999	6	0.628	0.286	-	0.9425		
62802C/50226	3	6	227.233	114.664	6	755.000	168.757	-	0.1317	6	15.155	10.598	6	1065.897	381.522	-	0.0267		
Habitat Means			585.930	541.978		418.506	120.395	-			48.604	46.514		384.835	142.968	-			
Fisher's	Power		0.003		Power-50%		0.101	P-value	0.2813 y	Power	0.031		Power-50%		0.103	P-value	0.4140xy		
Stouffer's	Power		0.002		Power-50%		0.276	P-value	0.3729	Power	0.092		Power-50%		0.256	P-value	0.7534		

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

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

Z Only one site pair.

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	3.817	3.817	6	0.000	0.000	-	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632		
Habitat Means			1.272	1.272		0.556	0.556	-			0.000	0.000		0.000	0.000	-			
Fisher's	Power		---		Power-50%		---	P-value	0.5186 y	Power	---		Power-50%		---	P-value	0.5186 y		
Stouffer's	Power		---		Power-50%		---	P-value	0.5306	Power	---		Power-50%		---	P-value	0.5306		
50389C/50389	2	6	0.000	0.000	6	346.383	156.283	-	0.0009	6	0.000	0.000	6	0.341	0.223	-	0.0075		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	2	6	31.117	19.979	6	0.000	0.000	-	0.1750	6	0.058	0.044	6	0.000	0.000	+	0.1785		
Habitat Means			10.372	6.660		115.461	52.094	-			0.019	0.015		0.114	0.074	-			
Fisher's	Power		---		Power-50%		---	P-value	0.0093	Power	---		Power-50%		---	P-value	0.0473		
Stouffer's	Power		0.000		Power-50%		0.125	P-value	0.1610	Power	0.000		Power-50%		0.027	P-value	0.2631		
50389C/50389	3	5	0.000	0.000	6	247.783	141.266	-	0.0072	5	0.000	0.000	6	0.172	0.116	-	0.0292		
51091C/51091	3	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632		
62802C/50226	3	6	53.333	53.333	6	0.000	0.000	+	0.3632	6	0.098	0.098	6	0.000	0.000	+	0.3632		
Habitat Means			18.889	18.889		82.594	47.089	-			0.033	0.033		0.057	0.039	+			
Fisher's	Power		0.594		Power-50%		---	P-value	0.3368xy	Power	0.090		Power-50%		---	P-value	0.3346xy		
Stouffer's	Power		0.535		Power-50%		---	P-value	0.6760	Power	0.120		Power-50%		---	P-value	0.5681		

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

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Table D-83. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

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a. The same site pair is used in both directions of difference between habitat means is different than direction of overall tests.
 y. Direction of difference between habitat means is different than direction of overall tests.
 z. Only one site pair.

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

Table D-83. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

Nucella lima - abundance (#/m^2)										Nucella lima - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
50389C/50389	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	

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

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Nucella lamellosa - abundance (#/m^2)										Nucella lamellosa - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power		---		Power-50%		---	P-value	0.6552	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power		---		Power-50%		---	P-value	0.6552	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
50389C/50389	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
62802C/50226	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power		---		Power-50%		---	P-value	0.6552	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	

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

Table D-83. Page 18. December 21, 1994

Table D-83. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Coarse Textured, May 1991. (Continued.)

Site Pair	MVD	Amphipoda - abundance (#/m ²)								Amphipoda - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	0.000	0.000	6	18.333	16.415	-	0.2004	6	0.000	0.000	6	0.178	0.172	-	0.2040
51091C/51091	1	6	155.530	69.825	6	658.000	308.497	-	0.8005	6	1.817	1.004	6	7.710	3.177	-	0.6426
62802C/50226	1	6	0.000	0.000	6	50.000	36.742	-	0.0960	6	0.000	0.000	6	0.956	0.729	-	0.0834
Habitat Means			51.850	23.275		242.111	120.551	-			0.606	0.335		2.948	1.359	-	
Fisher's	Power	---			Power-50%	---		P-value	0.0516	Power	---		Power-50%	---		P-value	0.0401
Stouffer's	Power	---			Power-50%	---	0.000	P-value	0.0269	Power	---		Power-50%	---		P-value	0.0190
50389C/50389	2	6	5.000	5.000	6	170.233	146.672	-	0.1823	6	0.043	0.043	6	1.246	1.217	-	0.2956
51091C/51091	2	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.070	0.070	6	0.000	0.000	+	0.3632
62802C/50226	2	6	0.000	0.000	6	517.217	160.402	-	0.0053	6	0.000	0.000	6	7.988	3.407	-	0.0054
Habitat Means			2.222	2.222		229.150	102.358	-			0.038	0.038		3.078	1.541	-	
Fisher's	Power	---			Power-50%	---		P-value	0.0091	Power	---		Power-50%	---		P-value	0.0135
Stouffer's	Power	---			Power-50%	---		P-value	0.0184	Power	---		Power-50%	---		P-value	0.0273
50389C/50389	3	5	4.000	4.000	6	113.333	107.445	-	0.4598	5	0.034	0.034	6	0.495	0.424	-	0.5150
51091C/51091	3	6	6.667	6.667	6	47.333	25.517	-	0.2154	6	0.137	0.137	6	0.094	0.058	-	0.4203
62802C/50226	3	6	0.000	0.000	6	8295.350	7498.960	-	0.0006	6	0.000	0.000	6	6.246	4.742	-	0.0001
Habitat Means			3.556	3.556		2817.405	2543.974	-			0.057	0.057		2.278	1.741	-	
Fisher's	Power	---			Power-50%	---		P-value	0.0006	Power	---		Power-50%	---		P-value	0.0008
Stouffer's	Power	---			Power-50%	---		P-value	0.0005	Power	---		Power-50%	---		P-value	0.0068

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

Table D-83, Page 19, December 21, 1994

Site Pair	MVD	Isopoda - abundance (#/m ²)								Isopoda - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
50389C/50389	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.556	0.556		0.556	0.556	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power	---			Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
50389C/50389	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
51091C/51091	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	2	6	0.000	0.000	6	23.333	23.333	-	0.3632	6	0.000	0.000	6	0.277	0.277	-	0.3632
Habitat Means			0.000	0.000		7.778	7.778	-			0.000	0.000		0.092	0.092	-	
Fisher's	Power	---			Power-50%	---		P-value	0.4028	Power	---		Power-50%	---		P-value	0.4028
Stouffer's	Power	---			Power-50%	---		P-value	0.2781	Power	---		Power-50%	---		P-value	0.2781
50389C/50389	3	5	0.000	0.000	6	111.667	111.667	-	0.3632	5	0.000	0.000	6	1.462	1.462	-	0.2911
51091C/51091	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
62802C/50226	3	6	8.883	8.883	6	771.117	550.330	-	0.0114	6	0.080	0.080	6	3.205	1.481	-	0.0001
Habitat Means			2.961	2.961		294.261	220.666	-			0.027	0.027		1.556	0.981	-	
Fisher's	Power	---			Power-50%	---		P-value	0.0192	Power	---		Power-50%	---		P-value	0.0003
Stouffer's	Power	---			Power-50%	---		P-value	0.0158	Power	---		Power-50%	---		P-value	0.0009

z Only one site pair.

Table D-83, Page 20, December 21, 1994

Table D-83. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

Errant polychaetes - abundance (#/m ²)										Errant polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	3.333	2.108	-	0.1747	6	0.000	0.000	6	0.003	0.003	-	0.3007		
51091C/51091	1	6	6.667	6.667	6	0.000	0.000	+	0.3632	6	0.060	0.060	6	0.000	0.000	-	0.3632		
62802C/50226	1	6	8.883	8.883	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	-	0.3632		
Habitat Means			5.183	5.183		1.111	0.703	+			0.020	0.020		0.001	0.001	+			
Fisher's	Power		0.891		Power-50%	---	P-value	0.3202		Power	0.078		Power-50%	---	P-value	0.3072			
Stouffer's	Power		0.639		Power-50%	---	P-value	0.3851		Power	0.021		Power-50%	---	P-value	0.3179			
50389C/50389	2	6	0.000	0.000	6	24.517	22.576	-	0.2051	6	0.000	0.000	6	0.008	0.008	-	0.3125		
51091C/51091	2	6	70.000	34.071	6	0.000	0.000	+	0.0279	6	0.061	0.032	6	0.000	0.000	+	0.0659		
62802C/50226	2	6	45.717	22.174	6	5.000	5.000	+	0.1810	6	0.013	0.009	6	0.203	0.203	-	0.9569		
Habitat Means			38.572	18.748		9.839	9.192	+			0.025	0.014		0.070	0.070	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0349		Power	0.070		Power-50%	0.009	P-value	0.5117*			
Stouffer's	Power		---		Power-50%	0.362	P-value	0.0996		Power	0.021		Power-50%	0.025	P-value	0.6341			
50389C/50389	3	5	16.000	16.000	6	598.333	420.582	-	0.0126	5	0.006	0.006	6	0.654	0.379	-	0.0690		
51091C/51091	3	6	101.667	80.433	6	4.083	2.647	+	0.2751	6	0.097	0.082	6	0.048	0.045	+	0.8205		
62802C/50226	3	6	197.667	116.697	6	192.783	99.111	-	0.5818	6	1.456	0.968	6	15.807	10.015	-	0.2651		
Habitat Means			105.111	71.043		265.066	174.113	+			0.520	0.352		5.503	3.480	-			
Fisher's	Power		0.326		Power-50%	0.318	P-value	0.3747*		Power	---		Power-50%	---	P-value	0.0658			
Stouffer's	Power		0.395		Power-50%	0.467	P-value	0.6868		Power	---		Power-50%	---	P-value	0.0517			

Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
51091C/51091	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	-	0.3632		
62802C/50226	1	6	6.117	4.429	6	0.000	0.000	+	0.1816	6	0.003	0.003	6	0.000	0.000	-	0.3007		
Habitat Means			2.595	2.032		0.000	0.000	+			0.001	0.001		0.000	0.000	-			
Fisher's	Power		0.943		Power-50%	0.337	P-value	0.1427		Power	0.123		Power-50%	0.010	P-value	0.1981			
Stouffer's	Power		---		Power-50%	0.418	P-value	0.0914		Power	0.291		Power-50%	0.025	P-value	0.1277			
50389C/50389	2	6	73.333	73.333	6	3.817	3.817	+	0.6802	6	0.087	0.087	6	0.000	0.000	+	0.3932		
51091C/51091	2	6	18.883	10.490	6	0.000	0.000	-	0.0853	6	0.003	0.002	6	0.000	0.000	+	0.1361		
62802C/50226	2	6	164.767	66.875	6	0.000	0.000	-	0.0267	6	0.201	0.094	6	0.000	0.000	+	0.0669		
Habitat Means			85.661	50.233		1.272	1.272	+			0.097	0.061		0.000	0.000	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0089		Power	---		Power-50%	---	P-value	0.0172			
Stouffer's	Power		---		Power-50%	0.644	P-value	0.0054		Power	---		Power-50%	---	P-value	0.0075			
50389C/50389	3	5	94.000	94.000	6	2526.667	2180.553	-	0.0507	5	0.120	0.120	6	4.058	3.266	-	0.1641		
51091C/51091	3	6	43.333	43.333	6	2.417	2.417	+	0.7648	6	0.013	0.013	6	0.000	0.000	+	0.4068		
62802C/50226	3	6	1619.883	718.371	6	27.217	18.705	+	0.0079	6	2.237	1.008	6	0.014	0.013	+	0.0304		
Habitat Means			585.739	285.235		852.100	733.892	+			0.790	0.380		1.357	1.093	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0424*		Power	---		Power-50%	---	P-value	0.0683*			
Stouffer's	Power		0.296		Power-50%	0.293	P-value	0.2196		Power	0.203		Power-50%	0.124	P-value	0.1480			

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

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Table D-83. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Coarse Textured. May 1991. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	1333.933	902.548	6	338.333	196.170	+	0.4580	6	2.277	2.131	6	0.191	0.137	+	0.4506		
51091C/51091	1	6	1214.450	727.643	6	--	--	-	0.0126	6	0.412	0.367	6	60.799	55.863	-	0.0066		
62802C/50226	1	6	939.617	704.105	6	714.433	699.845	+	0.1307	6	1.923	1.785	6	0.920	0.801	-	0.9349		
Habitat Means			1162.667	778.099		526.383	448.008	+			1.537	1.428		20.637	18.934	-			
Fisher's	Power		0.005		Power-50%	0.021	P-value	0.2091x		Power	0.001		Power-50%	0.009	P-value	0.6082xy			
Stouffer's	Power		0.038		Power-50%	0.125	P-value	0.4550		Power	0.006		Power-50%	0.081	P-value	0.8212			
50389C/50389	2	6	2037.483	1305.675	6	1068.483	418.473	-	0.9916	6	0.581	0.189	6	0.522	0.282	+	0.3292		
51091C/51091	2	6	452.783	239.036	6	29097.766	7410.058	-	0.0008	6	0.025	0.025	6	11.925	2.647	-	0.0001		
62802C/50226	2	6	2548.017	1810.182	6	2329.450	1641.181	-	0.4086	6	2.896	2.301	6	1.119	0.667	+	0.5929		
Habitat Means			1679.428	1118.298		10831.900	3156.571	+			1.167	0.838		4.522	1.199	+			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.5987xy		Power	0.000		Power-50%	0.000	P-value	0.4187xy			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.8817		Power	0.000		Power-50%	0.000	P-value	0.8656			
50389C/50389	3	5	1123.520	516.182	6	695.550	300.596	+	0.2808	5	1.423	0.373	6	0.170	0.081	-	0.0210		
51091C/51091	3	6	108.883	21.838	6	5918.883	1852.699	-	0.0001	6	0.001	0.000	6	2.194	0.623	-	0.0001		
62802C/50226	3	6	947.217	529.138	6	3159.450	970.095	-	0.0655	6	0.337	0.236	6	1.173	0.492	-	0.2214		
Habitat Means			726.540	355.719		3257.961	1041.130	-			0.587	0.203		1.179	0.399	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0005x			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0049		Power	---		Power-50%	---	P-value	0.0677			

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

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

z Only one site pair.

Table D-83, Page 23, December 21, 1994

Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	1356.950	900.255	6	1576.667	747.483	-	0.2825	6	3.520	2.237	6	128.075	92.540	-	0.0094		
51091C/51091	1	6	1859.450	796.078	6	--	--	-	0.0112	6	5.926	3.781	6	117.411	67.907	-	0.1576		
62802C/50226	1	6	1622.433	823.371	6	1236.083	766.708	+	0.5429	6	15.675	9.553	6	50.773	32.561	-	0.2698		
Habitat Means			1612.944	839.901		1406.375	757.096	-			8.374	5.190		98.753	64.336	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0209 y		Power	---		Power-50%	---	P-value	0.0030			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0648		Power	---		Power-50%	---	P-value	0.0018			
50389C/50389	2	6	3633.317	1724.783	6	4654.833	826.859	-	0.1839	6	56.863	47.079	6	111.167	27.974	-	0.6324		
51091C/51091	2	6	2017.783	945.882	6	30115.484	7278.776	-	0.0007	6	64.998	64.613	6	13.214	3.298	+	0.6483		
62802C/50226	2	6	7381.283	2277.511	6	4271.667	2030.139	+	0.0890	6	95.143	44.632	6	257.591	169.438	-	0.1587		
Habitat Means			4344.128	1649.392		13013.995	3378.591	-			72.335	52.108		127.324	66.903	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0020x		Power	0.000		Power-50%	0.000	P-value	0.2270			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0823		Power	0.000		Power-50%	0.000	P-value	0.1718			
50389C/50389	3	5	3468.020	1855.575	6	7199.434	3517.928	-	0.5700	5	138.635	135.104	6	226.820	66.918	-	0.0013		
51091C/51091	3	6	714.967	301.705	6	11011.833	3650.012	-	0.1071	6	4.729	2.476	6	5.800	1.610	-	0.2933		
62802C/50226	3	6	11100.184	4884.745	6	18977.783	7695.270	-	0.2133	6	92.432	39.129	6	1279.326	385.088	-	0.0033		
Habitat Means			5094.390	2347.342		12396.350	4954.403	-			78.599	58.903		503.982	151.205	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0456		Power	---		Power-50%	---	P-value	0.0000			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0254		Power	---		Power-50%	---	P-value	0.0000			

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

Table D-83. Page 23. December 21, 1994

Total Invertebrates - abundance (#/m^2)										Total Invertebrates - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
50389C/50389	1	6	1356.950	900.255	6	1576.667	747.483	-	0.2825	6	3.520	2.237	6	128.075	92.540	-	0.0094		
51091C/51091	1	6	1859.450	796.078	6	--	--	-	0.0112	6	5.926	3.781	6	117.411	67.907	-	0.1576		
62802C/50226	1	6	1622.433	823.371	6	1236.083	766.708	+	0.5429	6	15.675	9.553	6	50.773	32.561	-	0.2698		
Habitat Means			1612.944	839.901		1406.375	757.096	-			8.374	5.190		98.753	64.336	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0209 y		Power		---		Power-50%	---	P-value	0.0030		
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0648		Power		---		Power-50%	---	P-value	0.0018		
50389C/50389	2	6	3633.317	1724.783	6	4654.833	826.859	-	0.1839	6	56.863	47.079	6	111.167	27.974	-	0.6324		
51091C/51091	2	6	2017.783	945.882	6	30115.484	7278.776	-	0.0007	6	64.998	64.613	6	13.214	3.298	+	0.6483		
62802C/50226	2	6	7381.283	2277.511	6	4271.667	2030.139	+	0.0890	6	95.143	44.632	6	257.591	169.438	-	0.1587		
Habitat Means			4344.128	1649.392		13013.995	3378.591	-			72.335	52.108		127.324	66.903	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0020x		Power	0.000		Power-50%	0.000	P-value	0.2270			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0823		Power	0.000		Power-50%	0.000	P-value	0.1718			
50389C/50389	3	5	3468.020	1855.575	6	7199.434	3517.928	-	0.5700	5	138.635	135.104	6	226.820	66.918	-	0.0013		
51091C/51091	3	6	714.967	301.705	6	11011.833	3650.012	-	0.1071	6	4.729	2.476	6	5.800	1.610	-	0.2933		
62802C/50226	3	6	1100.184	4884.745	6	18977.783	7695.270	-	0.2133	6	92.432	39.129	6	1279.326	385.088	-	0.0033		
Habitat Means			5094.390	2347.342		12396.350	4954.403	-			78.599	58.903		503.982	151.205	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0456		Power	---		Power-50%	---	P-value	0.0000			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0254		Power	---		Power-50%	---	P-value	0.0000			

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

Table D-83. Page 24. December 21, 1994

Table D-84. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	3.333	3.333	6	40.000	30.659	-	0.2177	6	2.520	2.520	6	8.630	6.936	-	0.5710		
50981C/50221	1	6	11.667	9.804	6	0.000	0.000	+	0.1927	6	12.253	11.974	6	0.000	0.000	+	0.2597		
50981C/50981	1	6	11.667	9.804	6	1.667	1.667	+	0.4252	6	12.253	11.974	6	0.375	0.375	+	0.2743		
Habitat Means			8.889	7.647		13.889	10.775				9.009	8.823		3.002	2.437				
Fisher's		Power	0.240		Power-50%	0.284	P-value	0.2376		Power	0.235		Power-50%	0.089	P-value	0.1894			
Stouffer's		Power	0.285		Power-50%	0.366	P-value	0.3083		Power	0.399		Power-50%	0.179	P-value	0.1698			
C15.1C/C15.1	2	6	20.000	16.125	6	23.333	9.545	-	0.7930	6	7.520	6.514	6	3.430	1.363	-	0.3402		
50981C/50221	2	6	6.667	4.944	4	0.000	0.000	+	0.6392	6	1.803	1.184	4	0.000	0.000	-	0.7049		
50981C/50981	2	6	6.667	4.944	6	7.217	6.579	-	0.9654	6	1.803	1.184	6	1.713	1.631	+	0.9831		
Habitat Means			11.111	8.671		10.183	5.375				3.709	2.961		1.714	0.998				
Fisher's		Power	0.001		Power-50%	0.342	P-value	0.6663		Power	0.409		Power-50%	0.344	P-value	0.3164			
Stouffer's		Power	0.000		Power-50%	0.461	P-value	0.5375		Power	0.497		Power-50%	0.463	P-value	0.2173			
C15.1C/C15.1	3	6	33.333	17.826	5	28.000	15.297	+	0.9447	6	5.542	2.838	5	5.022	2.229	+	0.7990		
50981C/50221	3	5	8.000	5.831	1	0.000	--	+	----	5	0.938	0.655	1	0.000	0.000	-	----		
50981C/50981	3	5	8.000	5.831	3	0.000	0.000	+	0.1867	5	0.938	0.655	3	0.000	0.000	-	0.1788		
Habitat Means			16.444	9.829		9.333	7.649	+			2.473	1.383		1.674	1.115				
Fisher's		Power	0.369		Power-50%	0.285	P-value	0.1817		Power	0.391		Power-50%	0.323	P-value	0.1547			
Stouffer's		Power	0.460		Power-50%	0.371	P-value	0.1629		Power	0.437		Power-50%	0.398	P-value	0.1291			

Lottia pelta - abundance (#/m ²)										Lottia pelta - biomass (g/m ²)									
site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	1.612	1.612	-	0.3632		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		1.111	1.111	-			0.000	0.000		0.537	0.537	-			
Fisher's		Power	---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028			
Stouffer's		Power	---		Power-50%	---	P-value	0.2998		Power	---		Power-50%	---	P-value	0.2998			
C15.1C/C15.1	2	6	1.667	1.667	6	8.333	6.540	-	0.3168	6	0.287	0.287	6	1.288	1.036	-	0.3524		
50981C/50221	2	6	5.000	5.000	4	0.000	0.000	-	0.4997	6	0.697	0.697	4	0.000	0.000	-	0.5611		
50981C/50981	2	6	5.000	5.000	6	5.550	4.920	-	0.9336	6	0.697	0.697	6	1.090	1.008	-	0.7132		
Habitat Means			3.889	3.889		4.628	3.820	-			0.560	0.560		0.793	0.681	-			
Fisher's		Power	0.001		Power-50%	---	P-value	0.4478		Power	0.001		Power-50%	---	P-value	0.4019			
Stouffer's		Power	0.000		Power-50%	---	P-value	0.4066		Power	0.000		Power-50%	---	P-value	0.3396			
C15.1C/C15.1	3	6	1.667	1.667	5	10.000	5.477	-	0.1398	6	0.175	0.175	5	2.044	1.117	-	0.1322		
50981C/50221	3	5	2.000	2.000	1	0.000	--	+	----	5	0.196	0.196	1	0.000	0.000	-	----		
50981C/50981	3	5	2.000	2.000	3	0.000	0.000	+	0.3739	5	0.196	0.196	3	0.000	0.000	+	0.3739		
Habitat Means			1.889	1.889		3.333	2.739	-			0.189	0.189		0.681	0.559	-			
Fisher's		Power	0.001		Power-50%	---	P-value	0.2198		Power	0.004		Power-50%	---	P-value	0.2109			
Stouffer's		Power	0.000		Power-50%	---	P-value	0.3388		Power	0.000		Power-50%	---	P-value	0.3314			

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

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Table D-84. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, June 1990. (Continued.)

Tectura persona - abundance (#/m^2)										Tectura persona - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	3.333	3.333	6	5.000	3.416	-	0.8234	6	2.520	2.520	6	0.418	0.278	+	0.7206		
50981C/50221	1	6	8.333	8.333	6	0.000	0.000	-	0.2693	6	11.780	11.780	6	0.000	0.000	+	0.3856		
50981C/50981	1	6	8.333	8.333	6	1.667	1.667	-	0.3751	6	11.780	11.780	6	0.375	0.375	+	0.7876		
Habitat Means			6.666	6.666		2.222	1.694	+			8.693	8.693		0.264	0.218	+			
Fisher's	Power		0.993		Power-50%	---	P-value	0.2090		Power	1.000		Power-50%	---	P-value	0.3030			
Stouffer's	Power		0.989		Power-50%	---	P-value	0.1536		Power	1.000		Power-50%	---	P-value	0.1942			
C15.1C/C15.1	2	6	15.000	15.000	6	1.667	1.667	+	0.5688	6	6.468	6.468	6	0.240	0.240	-	0.7601		
50981C/50221	2	6	1.667	1.667	4	0.000	0.000	+	0.5630	6	1.107	1.107	4	0.000	0.000	-	0.4673		
50981C/50981	2	6	1.667	1.667	6	0.000	0.000	+	0.5182	6	1.107	1.107	6	0.000	0.000	-	0.4169		
Habitat Means			6.111	6.111		0.556	0.556	+			2.894	2.894		0.080	0.080	-			
Fisher's	Power		---		Power-50%	---	P-value	0.2569		Power	---		Power-50%	---	P-value	0.2397			
Stouffer's	Power		---		Power-50%	---	P-value	0.1503		Power	---		Power-50%	---	P-value	0.1436			
C15.1C/C15.1	3	6	0.000	0.000	5	8.000	8.000	-	0.3739	6	0.000	0.000	5	0.712	0.712	-	0.3739		
50981C/50221	3	5	0.000	0.000	1	0.000	0.000	-	1.0000	5	0.000	0.000	1	0.000	0.000	-	1.0000		
50981C/50981	3	5	0.000	0.000	3	0.000	0.000	-	1.0000	5	0.000	0.000	3	0.000	0.000	-	1.0000		
Habitat Means			0.000	0.000		2.667	4.000	-			0.000	0.000		0.237	0.356	-			
Fisher's	Power		---		Power-50%	---	P-value	0.4092		Power	---		Power-50%	---	P-value	0.4092			
Stouffer's	Power		---		Power-50%	---	P-value	0.3039		Power	---		Power-50%	---	P-value	0.3039			

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

Table D-84, Page 4. December 21, 1994

Tectura scutum - abundance (#/m^2)										Tectura scutum - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
50981C/50221	3	5	0.000	0.000	1	0.000	0.000	o	1.0000	5	0.000	0.000	1	0.000	0.000	o	1.0000		
50981C/50981	3	5	0.000	0.000	3	0.000	0.000	o	1.0000	5	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			

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

Table D-84, Page 4. December 21, 1994

Table D-84. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, June 1990. (Continued.)

Balanomorphs - abundance (#/m^2)										Balanomorphs - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	165.550	90.341	6	3678.333	2086.184	-	0.0740	6	29.402	17.570	6	250.878	125.570	-	0.0922
50981C/50221	1	6	456.667	305.425	6	669.817	642.209	-	0.8424	6	36.300	23.941	6	91.347	88.649	-	0.9410
50981C/50981	1	6	456.667	305.425	6	150.000	136.064	-	0.9433	6	36.300	23.941	6	31.208	29.308	+	0.6386
Habitat Means			359.628	233.730		1499.383	954.819	-			34.001	21.817		124.478	81.176	-	
Fisher's	Power		0.000		Power-50%	0.191	P-value	0.1426		Power	0.000		Power-50%	0.165	P-value	0.2082	
Stouffer's	Power		0.000		Power-50%	0.327	P-value	0.1345		Power	0.000		Power-50%	0.307	P-value	0.2284	
C15.1C/C15.1	2	6	485.000	263.005	6	1486.667	222.511	-	0.1066	6	88.262	59.182	6	188.885	27.483	-	0.3321
50981C/50221	2	6	890.000	554.076	4	927.075	700.971	-	0.9564	6	121.097	86.151	4	179.710	149.312	-	0.6111
50981C/50981	2	6	890.000	554.076	6	792.233	284.884	-	0.8719	6	121.097	86.151	6	74.360	32.836	+	0.6502
Habitat Means			755.000	457.052		1068.658	402.789	-			110.152	77.161		147.652	69.877	-	
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.2047		Power	0.000		Power-50%	0.000	P-value	0.3447	
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.1920		Power	0.000		Power-50%	0.000	P-value	0.2770	
C15.1C/C15.1	3	6	994.783	285.079	5	1685.060	853.108	-	0.4623	6	171.016	73.743	5	117.515	60.574	-	0.6035
50981C/50221	3	5	424.000	189.963	1	1120.000	---	-	----	5	69.546	24.342	1	113.260	---	-	----
50981C/50981	3	5	424.000	189.963	3	220.000	131.561	+	0.6101	5	69.546	24.342	3	40.860	31.871	-	0.4071
Habitat Means			614.261	221.668		1008.353	492.335	-			103.369	40.809		90.545	46.223	-	
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.4544		Power	0.000		Power-50%	0.000	P-value	0.2328	
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.4367		Power	0.000		Power-50%	0.000	P-value	0.1703	

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

Table D-84, Page 5. December 21, 1994

Chthamalus dalli - abundance (#/m^2)										Chthamalus dalli - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	0.000	0.000	6	460.000	338.733	-	0.0199	6	0.000	0.000	6	5.405	4.138	-	0.0104
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		153.333	112.911	-			0.000	0.000		1.802	1.379	-	
Fisher's	Power		---		Power-50%	---	P-value	0.0621		Power	---		Power-50%	---	P-value	0.0386	
Stouffer's	Power		---		Power-50%	---	P-value	0.0894		Power	---		Power-50%	---	P-value	0.0695	
C15.1C/C15.1	2	6	0.000	0.000	6	60.000	28.636	-	0.0342	6	0.000	0.000	6	0.908	0.412	-	0.0684
50981C/50221	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		20.000	9.545	-			0.000	0.000		0.303	0.137	-	
Fisher's	Power		---		Power-50%	---	P-value	0.0912		Power	0.000		Power-50%	---	P-value	0.1462	
Stouffer's	Power		0.000		Power-50%	---	P-value	0.1107		Power	0.000		Power-50%	---	P-value	0.1463	
C15.1C/C15.1	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
50981C/50221	3	5	0.000	0.000	1	0.000	--	o	1.0000	5	0.000	0.000	1	0.000	--	o	1.0000
50981C/50981	3	5	0.000	0.000	3	6.667	6.667	-	0.4226	5	0.000	0.000	3	0.017	0.017	-	0.4226
Habitat Means			0.000	0.000		2.222	3.334	-			0.000	0.000		0.006	0.009	-	
Fisher's	Power		---		Power-50%	---	P-value	0.4366		Power	---		Power-50%	---	P-value	0.4366	
Stouffer's	Power		---		Power-50%	---	P-value	0.3217		Power	---		Power-50%	---	P-value	0.3217	

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

Table D-84, Page 6. December 21, 1994

Table D-84. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, June 1990. (Continued.)

Site Pair	MVD	Balanus glandula - abundance (#/m ²)								Balanus glandula - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	3.333	3.333	6	406.667	197.765	-	0.0004	6	0.815	0.815	6	93.732	56.634	-	0.0007
50981C/50221	1	6	6.667	4.944	6	217.217	202.872	-	0.3184	6	0.458	0.437	6	34.628	32.778	-	0.2783
50981C/50981	1	6	6.667	4.944	6	61.667	55.762	-	0.4367	6	0.458	0.437	6	13.002	11.682	-	0.2957
Habitat Means			5.556	4.407		228.517	152.133	-			0.577	0.563		47.121	33.698	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0006	Power	---		Power-50%	---		P-value	0.0006
Stouffer's		Power	---		Power-50%	0.629		P-value	0.0011	Power	---		Power-50%	---		P-value	0.0007
C15.1C/C15.1	2	6	18.333	10.775	6	353.333	140.087	-	0.0438	6	1.652	0.891	6	71.968	27.765	-	0.1191
50981C/50221	2	6	46.667	28.713	4	92.900	42.360	-	0.4487	6	7.940	6.435	4	25.855	18.356	-	0.4324
50981C/50981	2	6	46.667	28.713	6	33.333	13.443	-	0.7660	6	7.940	6.435	6	5.596	3.251	-	0.5472
Habitat Means			37.222	22.734		159.855	65.297	-			5.844	4.587		34.473	16.457	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0716	Power	0.012		Power-50%	0.238		P-value	0.1551
Stouffer's		Power	---		Power-50%	0.773		P-value	0.0764	Power	0.047		Power-50%	0.685		P-value	0.1572
C15.1C/C15.1	3	6	66.667	25.122	5	50.000	26.833	+	0.5494	6	15.073	7.622	5	3.632	2.388	+	0.3568
50981C/50221	3	5	44.000	30.430	1	160.000	--	-	----	5	8.936	6.935	1	5.670	--	-	----
50981C/50981	3	5	44.000	30.430	3	6.667	6.667	+	0.4459	5	8.936	6.935	3	1.827	1.827	+	0.5155
Habitat Means			51.556	28.661		72.222	16.750	+			10.982	7.164		3.716	2.108	+	
Fisher's		Power	0.002		Power-50%	0.034		P-value	0.2323 y	Power	0.002		Power-50%	0.027		P-value	0.1876
Stouffer's		Power	0.004		Power-50%	0.101		P-value	0.1680	Power	0.004		Power-50%	0.089		P-value	0.1333

Site Pair	MVD	Semibalanus balanoides - abundance (#/m ²)								Semibalanus balanoides - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	162.217	88.932	6	2576.667	1380.588	-	0.1347	6	28.587	17.324	6	147.123	99.216	-	0.0967
50981C/50221	1	6	436.667	295.642	6	385.000	379.014	+	0.6037	6	35.738	23.496	6	53.535	52.733	-	0.7986
50981C/50981	1	6	436.667	295.642	6	85.000	77.017	+	0.7919	6	35.738	23.496	6	17.985	17.414	-	0.7990
Habitat Means			345.184	226.739		1015.556	612.206	+			33.354	21.439		72.881	56.454	-	
Fisher's		Power	0.174		Power-50%	0.138		P-value	0.6243 y	Power	0.000		Power-50%	0.112		P-value	0.1784
Stouffer's		Power	0.408		Power-50%	0.262		P-value	0.6599	Power	0.000		Power-50%	0.247		P-value	0.1686
C15.1C/C15.1	2	6	421.667	256.156	6	966.667	144.929	-	0.3336	6	84.585	58.838	6	105.147	21.176	-	0.8249
50981C/50221	2	6	773.333	528.228	4	795.425	637.782	-	0.9718	6	107.525	80.338	4	146.851	125.015	-	0.7053
50981C/50981	2	6	773.333	528.228	6	609.450	227.817	+	0.7695	6	107.525	80.338	6	58.250	25.869	-	0.5968
Habitat Means			656.121	437.537		790.514	336.843	-			99.878	73.171		103.416	57.353	-	
Fisher's		Power	0.001		Power-50%	0.000		P-value	0.4235	Power	0.001		Power-50%	0.000		P-value	0.6007
Stouffer's		Power	0.003		Power-50%	0.000		P-value	0.3410	Power	0.002		Power-50%	0.000		P-value	0.4839
C15.1C/C15.1	3	6	696.667	300.041	5	1212.000	557.103	-	0.3203	6	146.985	69.126	5	104.638	52.348	+	0.5497
50981C/50221	3	5	251.000	103.687	1	810.000	--	-	----	5	58.162	21.061	1	102.130	--	-	----
50981C/50981	3	5	251.000	103.687	3	166.667	87.860	+	0.7764	5	58.162	21.061	3	35.030	28.670	-	0.3571
Habitat Means			399.556	169.138		729.556	322.482	-			87.770	37.083		80.599	40.509	-	
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.3256	Power	0.000		Power-50%	0.000		P-value	0.1970
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.3078	Power	0.000		Power-50%	0.000		P-value	0.1414

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

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Table D-84, Page 8, December 21, 1994

Table D-84. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, June 1990. (Continued.)

Lacuna spp. - abundance (#/m^2)										Lacuna spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.028	0.028	-	0.3632		
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.009	0.009	-			
Fisher's	Power		---		Power-50%	---		P-value	0.4028	Power	---		Power-50%	---		P-value	0.4028		
Stouffer's	Power		---		Power-50%	---		P-value	0.2998	Power	---		Power-50%	---		P-value	0.2998		
C15.1C/C15.1	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.013	0.013	-	0.3632		
50981C/50221	2	6	0.000	0.000	4	2.500	2.500	-	0.3910	6	0.000	0.000	4	0.027	0.027	-	0.3910		
50981C/50981	2	6	0.000	0.000	6	0.550	0.550	-	0.3632	6	0.000	0.000	6	0.005	0.005	-	0.3632		
Habitat Means			0.000	0.000		1.572	1.572	-			0.000	0.000		0.015	0.015	-			
Fisher's	Power		---		Power-50%	---		P-value	0.1210	Power	---		Power-50%	---		P-value	0.1210		
Stouffer's	Power		---		Power-50%	---		P-value	0.0612	Power	---		Power-50%	---		P-value	0.0612		
C15.1C/C15.1	3	6	0.000	0.000	5	4.000	2.449	-	0.1778	6	0.000	0.000	5	0.182	0.121	-	0.1786		
50981C/50221	3	5	6.000	6.000	1	0.000	---	---	---	5	0.018	0.018	1	0.000	---	+	---		
50981C/50981	3	5	6.000	6.000	3	0.000	0.000	-	0.3739	5	0.018	0.018	3	0.000	0.000	-	0.3739		
Habitat Means			4.000	4.000		1.333	1.225	-			0.012	0.012		0.061	0.061	-			
Fisher's	Power		0.175		Power-50%	---		P-value	0.2622	Power	0.073		Power-50%	---		P-value	0.2630		
Stouffer's	Power		0.000		Power-50%	---		P-value	0.3728	Power	0.001		Power-50%	---		P-value	0.3735		

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

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Littorina spp. - abundance (#/m^2)										Littorina spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	20.000	18.074	6	385.000	197.699	-	0.0206	6	1.253	1.212	6	41.033	18.563	-	0.0055		
50981C/50221	1	6	143.333	113.216	6	48.517	34.221	+	0.5303	6	13.462	7.461	6	7.821	6.880	+	0.6746		
50981C/50981	1	6	143.333	113.216	6	28.333	26.384	+	0.4473	6	13.462	7.461	6	5.303	5.120	+	0.5443		
Habitat Means			102.222	81.502		153.950	86.101	+			9.392	5.378		18.052	10.188	-			
Fisher's	Power		0.255		Power-50%	0.242		P-value	0.4610 _{xy}	Power	0.256		Power-50%	0.250		P-value	0.5721 _{xy}		
Stouffer's	Power		0.362		Power-50%	0.382		P-value	0.7041	Power	0.401		Power-50%	0.386		P-value	0.8440		
C15.1C/C15.1	2	6	218.817	72.097	6	568.883	136.258	-	0.1398	6	27.256	12.311	6	34.551	5.570	-	0.2727		
50981C/50221	2	6	505.000	217.926	4	291.250	95.008	+	0.7844	6	43.642	13.322	4	27.625	17.871	+	0.4293		
50981C/50981	2	6	505.000	217.926	6	67.233	26.045	+	0.0185	6	43.642	13.322	6	5.286	1.661	+	0.0069		
Habitat Means			409.606	169.316		309.122	85.770	+			38.180	12.985		22.487	8.367	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0772	Power	---		Power-50%	---		P-value	0.0226		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.2529	Power	---		Power-50%	---		P-value	0.0833		
C15.1C/C15.1	3	6	363.783	159.777	5	786.400	234.672	-	0.1561	6	34.501	13.686	5	53.184	16.028	-	0.2558		
50981C/50221	3	5	107.000	41.881	1	170.000	---	---	---	5	15.582	5.652	1	10.480	---	+	---		
50981C/50981	3	5	107.000	41.881	3	95.000	47.697	+	0.9418	5	15.582	5.652	3	5.358	2.534	+	0.9631		
Habitat Means			192.594	81.180		350.467	141.185	-			21.888	8.330		23.007	9.281	-			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.1729	Power	0.000		Power-50%	0.000		P-value	0.2462		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.1707	Power	0.000		Power-50%	0.000		P-value	0.2204		

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

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Table D-84. Invertebrate Abundance and Biomass, Cook Inlet/Kenai, Estuarine, June 1990. (Continued.)

Littorina sitkana - abundance (#/m^2)										Littorina sitkana - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	8.333	16.415	6	383.333	96.056	-	0.0197	6	1.073	1.032	6	41.010	18.541	-	0.0052		
50981C/50221	1	6	13.333	113.216	6	41.850	28.016	+	0.4985	6	13.462	7.461	6	7.677	6.737	+	0.6659		
50981C/50981	1	6	13.333	113.216	6	28.333	26.384	+	0.4436	6	13.462	7.461	6	5.303	5.120	+	0.5431		
Habitat Means			11.666	80.949		151.172	83.485				9.332	5.318		17.997	10.133				
Fisher's		Power	0.268		Power-50%	36	P-value	0.4448 _{xy}		Power	0.266		Power-50%	0.248	P-value	0.5681 _{xy}			
Stouffer's		Power	0.388		Power-50%	52	P-value	0.6963		Power	0.413		Power-50%	0.358	P-value	0.8446			
C15.1C/C15.1	2	6	17.150	64.580	6	557.217	37.151	-	0.0496	6	25.128	12.350	6	34.055	5.705	-	0.5195		
50981C/50221	2	6	41.667	173.694	4	250.425	79.793	+	0.4473	6	38.208	10.467	4	26.192	17.289	-	0.4389		
50981C/50981	2	6	41.667	173.694	6	47.233	19.103	+	0.0531	6	38.208	10.467	6	3.851	1.437	-	0.0281		
Habitat Means			33.495	137.323		284.958	78.682				33.848	11.095		21.366	8.110				
Fisher's		Power	0.000		Power-50%	1000	P-value	0.1125 _x		Power	---		Power-50%	---	P-value	0.0423			
Stouffer's		Power	0.000		Power-50%	1000	P-value	0.3366		Power	---		Power-50%	---	P-value	0.0749			
C15.1C/C15.1	3	6	33.783	146.885	5	750.400	42.528	-	0.1574	6	32.778	12.977	5	51.058	16.199	-	0.2563		
50981C/50221	3	5	7.000	37.537	1	170.000	---	---	----	5	13.903	5.299	1	10.480	---	+	----		
50981C/50981	3	5	7.000	37.537	3	78.333	37.676	-	0.6717	5	13.903	5.299	3	4.355	1.979	+	0.8734		
Habitat Means			12.594	73.986		332.911	40.102				20.195	7.858		21.964	9.089				
Fisher's		Power	0.000		Power-50%	1000	P-value	0.1225		Power	0.000		Power-50%	0.012	P-value	0.2619			
Stouffer's		Power	---		Power-50%	1036	P-value	0.0969		Power	0.000		Power-50%	0.041	P-value	0.2450			

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

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

z Only one site pair.

Littorina scutulata - abundance (#/m^2)										Littorina scutulata - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.180	0.180	6	0.023	0.023	-	0.8167		
50981C/50221	1	6	0.000	0.000	6	6.667	6.667	o	0.3632	6	0.000	0.000	6	0.143	0.143	-	0.3632		
50981C/50981	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.556	0.556		2.778	2.778				0.060	0.060		0.055	0.055				
Fisher's		Power	---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4404 _y			
Stouffer's		Power	---		Power-50%	---	P-value	0.2998		Power	---		Power-50%	---	P-value	0.3478			
C15.1C/C15.1	2	6	1.667	10.462	6	11.667	4.773	+	0.8846	6	2.128	1.002	6	0.497	0.184	+	0.7198		
50981C/50221	2	6	13.333	79.274	4	40.825	26.259	+	0.4197	6	5.433	5.246	4	1.433	0.866	+	0.4334		
50981C/50981	2	6	13.333	79.274	6	20.000	8.563	+	0.2324	6	5.433	5.246	6	1.435	0.607	+	0.3821		
Habitat Means			6.111	56.337		24.164	13.198	+			4.331	3.831		1.122	0.552				
Fisher's		Power	0.258		Power-50%	0.261	P-value	0.1703		Power	0.093		Power-50%	0.134	P-value	0.2094			
Stouffer's		Power	0.352		Power-50%	0.398	P-value	0.1077		Power	0.147		Power-50%	0.304	P-value	0.1223			
C15.1C/C15.1	3	6	10.000	15.492	5	36.000	11.225	-	0.4305	6	1.723	0.891	5	2.126	1.032	-	0.4811		
50981C/50221	3	5	10.000	5.477	1	0.000	---	---	----	5	1.679	0.434	1	0.000	---	+	----		
50981C/50981	3	5	10.000	5.477	3	16.667	11.667	-	0.1625	5	1.679	0.434	3	1.003	0.658	+	0.8629		
Habitat Means			0.000	8.815		17.556	11.446				1.694	0.586		1.043	0.845				
Fisher's		Power	0.045		Power-50%	0.074	P-value	0.2393		Power	0.000		Power-50%	0.009	P-value	0.4091 _y			
Stouffer's		Power	0.022		Power-50%	0.044	P-value	0.3334		Power	0.000		Power-50%	0.003	P-value	0.3537			

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

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o 0.100 in opposite direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

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Table D-84. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, June 1990. (Continued.)

Mytilus edulis - abundance (#/m^2)										Mytilus edulis - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	60.000	36.423	6	165.000	99.725	-	0.1452	6	55.408	47.160	6	160.152	107.578	-	0.2405		
50981C/50221	1	6	38.333	22.864	6	45.000	41.049	-	0.9250	6	32.537	23.565	6	86.288	82.967	-	0.5435		
50981C/50981	1	6	38.333	22.864	6	30.000	28.048	-	0.9063	6	32.537	23.565	6	36.750	34.135	-	0.9619		
Habitat Means			45.555	27.384		80.000	56.274	-			40.161	31.430		94.397	74.893	-			
Fisher's		Power	0.011		Power-50%	0.288	P-value	0.2385		Power	0.013		Power-50%	0.154	P-value	0.2165			
Stouffer's		Power	0.016		Power-50%	0.411	P-value	0.2039		Power	0.038		Power-50%	0.321	P-value	0.1455			
C15.1C/C15.1	2	6	112.150	70.559	6	518.333	146.160	-	0.0357	6	32.368	29.412	6	899.490	313.226	-	0.0021		
50981C/50221	2	6	435.233	160.189	4	267.175	190.417	-	0.4209	6	435.867	182.680	4	829.795	723.844	-	0.9677		
50981C/50981	2	6	435.233	160.189	6	150.550	51.599	-	0.1331	6	435.867	182.680	6	345.313	112.058	+	0.3641		
Habitat Means			327.539	130.312		312.019	129.392	-			301.367	131.591		691.533	383.043	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1991x		Power	---		Power-50%	---	P-value	0.0162			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.4526		Power	0.000		Power-50%	0.000	P-value	0.1011			
C15.1C/C15.1	3	6	320.667	147.496	5	90.260	55.439	-	0.7655	6	518.542	301.238	5	103.941	99.502	-	0.5254		
50981C/50221	3	5	557.000	137.273	1	0.000	---	-	---	5	428.471	112.672	1	0.000	---	+	---		
50981C/50981	3	5	557.000	137.273	3	36.667	13.333	-	0.0015	5	428.471	112.672	3	83.318	40.027	+	0.0975		
Habitat Means			478.222	140.681		42.309	34.386	+			458.495	175.527		62.420	69.765	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0026		Power	---		Power-50%	---	P-value	0.0686			
Stouffer's		Power	---		Power-50%	0.008	P-value	0.0070		Power	---		Power-50%	---	P-value	0.0525			

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

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Turtonia minuta - abundance (#/m^2)										Turtonia minuta - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.017	0.017	-	0.3632
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	1	6	0.000	0.000	6	11.667	7.491	-	0.1751	6	0.000	0.000	6	0.002	0.002	-	0.2865
Habitat Means			0.000	0.000		4.445	3.053	-			0.000	0.000		0.006	0.006	-	
Fisher's		Power	0.996		Power-50%	---	P-value	0.1393		Power	0.210		Power-50%	---	P-value	0.1921	
Stouffer's		Power	---		Power-50%	---	P-value	0.0954		Power	0.344		Power-50%	---	P-value	0.1271	
C15.1C/C15.1	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632
50981C/50221	2	6	0.000	0.000	4	2.500	2.500	-	0.3910	6	0.000	0.000	4	0.001	0.001	-	0.3910
50981C/50981	2	6	0.000	0.000	6	21.117	10.388	-	0.0772	6	0.000	0.000	6	0.017	0.008	-	0.0760
Habitat Means			0.000	0.000		8.428	4.852	-			0.000	0.000		0.006	0.003	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0402		Power	---		Power-50%	---	P-value	0.0397	
Stouffer's		Power	---		Power-50%	---	P-value	0.0206		Power	---		Power-50%	---	P-value	0.0204	
C15.1C/C15.1	3	6	13.333	13.333	5	10.000	7.746	+	0.6583	6	0.000	0.000	5	0.001	0.001	-	0.4385
50981C/50221	3	5	7.000	3.000	1	0.000	---	+	---	5	0.005	0.005	1	0.000	---	-	---
50981C/50981	3	5	7.000	3.000	3	3.333	1.667	+	0.7449	5	0.005	0.005	3	0.007	0.007	-	0.7659
Habitat Means			9.111	6.444		4.444	4.707	+			0.003	0.003		0.003	0.004	-	
Fisher's		Power	0.694		Power-50%	0.658	P-value	0.3799		Power	0.016		Power-50%	0.048	P-value	0.2920 y	
Stouffer's		Power	0.690		Power-50%	0.713	P-value	0.2938		Power	0.029		Power-50%	0.120	P-value	0.2247	

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

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Table D-84. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, June 1990. (Continued.)

Pagurus spp. - abundance (#/m^2)										Pagurus spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	2	6	0.000	0.000	6	5.000	3.416	-	0.1780	6	0.000	0.000	6	0.118	0.089	-	0.3332		
50981C/50221	2	6	3.333	3.333	4	0.000	0.000	+	0.4170	6	0.125	0.125	4	0.000	0.000	+	0.3602		
50981C/50981	2	6	3.333	3.333	6	1.667	1.667	+	0.6487	6	0.125	0.125	6	0.036	0.036	+	0.4660		
Habitat Means			2.222	2.222		2.222	1.694	+			0.083	0.083		0.051	0.042	+			
Fisher's	Power		0.762		Power-50%	---	P-value	0.4726	y	Power	0.647		Power-50%	---	P-value	0.3489			
Stouffer's	Power		0.198		Power-50%	---	P-value	0.5186		Power	0.143		Power-50%	---	P-value	0.3482			
C15.1C/C15.1	3	6	36.667	34.705	5	118.000	75.921	-	0.3310	6	1.338	0.849	5	11.868	10.133	-	0.3813		
50981C/50221	3	5	38.000	33.076	1	0.000	---	-	---	5	6.068	5.524	1	0.000	---	-	---		
50981C/50981	3	5	38.000	33.076	3	0.000	0.000	-	0.1055	5	6.068	5.524	3	0.000	0.000	-	0.0807		
Habitat Means			37.556	33.619		39.333	37.961	-			4.491	3.966		3.956	5.067	-			
Fisher's	Power		0.065		Power-50%	0.077	P-value	0.1815	y	Power	0.076		Power-50%	0.084	P-value	0.1444			
Stouffer's	Power		0.135		Power-50%	0.145	P-value	0.3236		Power	0.154		Power-50%	0.168	P-value	0.2688			

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

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Nucella spp. - abundance (#/m^2)										Nucella spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000		
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	3	6	0.000	0.000	5	14.000	11.662	-	0.1970	6	0.000	0.000	5	12.668	9.415	-	0.1788		
50981C/50221	3	5	0.000	0.000	1	0.000	---	o	1.0000	5	0.000	0.000	1	0.000	---	o	1.0000		
50981C/50981	3	5	0.000	0.000	3	0.000	0.000	o	1.0000	5	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		4.667	5.831	-			0.000	0.000		4.223	4.708	-			
Fisher's	Power		0.028		Power-50%	---	P-value	0.2848		Power	0.079		Power-50%	---	P-value	0.2687			
Stouffer's	Power		0.010		Power-50%	---	P-value	0.2281		Power	0.032		Power-50%	---	P-value	0.2188			

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

Table D-84. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, June 1990. (Continued.)

Nucella lima - abundance (#/m^2)										Nucella lima - biomass (g/m^2)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
50981C/50981	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power		---		Power-50%		---	P-value	0.6552
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
50981C/50221	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000	
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power		---		Power-50%		---	P-value	0.6552
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000
C15.1C/C15.1	3	6	0.000	0.000	5	14.000	11.662	-	0.1970	6	0.000	0.000	5	12.668	9.415	-	0.1788	
50981C/50221	3	5	0.000	0.000	1	0.000	--	o	1.0000	5	0.000	0.000	1	0.000	--	o	1.0000	
50981C/50981	3	5	0.000	0.000	3	0.000	0.000	o	1.0000	5	0.000	0.000	3	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		4.667	5.831	-			0.000	0.000		4.223	4.708	-		
Fisher's	Power		0.025		Power-50%		---	P-value	0.2848	Power	0.081		Power-50%		---	P-value	0.2687	
Stouffer's	Power		0.008		Power-50%		---	P-value	0.2281	Power	0.031		Power-50%		---	P-value	0.2188	

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

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Nucella lamellosa - abundance (#/m^2)										Nucella lamellosa - biomass (g/m^2)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
50981C/50981	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power		---		Power-50%		---	P-value	0.6552
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
50981C/50221	2	6	0.000	0.000	4	0.000	0.000	o	1.0000	6	0.000	0.000	4	0.000	0.000	o	1.0000	
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power		---		Power-50%		---	P-value	0.6552
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000
C15.1C/C15.1	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000	
50981C/50221	3	5	0.000	0.000	1	0.000	--	o	1.0000	5	0.000	0.000	1	0.000	--	o	1.0000	
50981C/50981	3	5	0.000	0.000	3	0.000	0.000	o	1.0000	5	0.000	0.000	3	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power		---		Power-50%		---	P-value	0.6552
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000

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

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Table D-84. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, June 1990. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	360.550	235.531	6	730.000	526.846	-	0.6155	6	0.708	0.656	6	3.570	2.052	-	0.4395		
50981C/50221	1	6	1.667	1.667	6	117.600	108.626	-	0.1742	6	0.008	0.008	6	0.153	0.136	-	0.3698		
50981C/50981	1	6	1.667	1.667	6	648.333	648.333	-	0.5108	6	0.008	0.008	6	0.608	0.608	-	0.6488		
Habitat Means			121.295	79.622		498.644	427.935	-			0.241	0.224		1.444	0.932	-			
Fisher's			Power	0.329		Power-50%	0.923	P-value	0.1260	Power	0.066		Power-50%	0.161	P-value	0.1937			
Stouffer's			Power	---		Power-50%	0.948	P-value	0.0730	Power	0.110		Power-50%	0.241	P-value	0.1100			
C15.1C/C15.1	2	6	348.333	90.422	6	809.450	512.488	-	0.3737	6	1.075	0.334	6	1.766	0.619	-	0.3002		
50981C/50221	2	6	198.333	139.724	4	528.425	323.071	-	0.5673	6	0.493	0.377	4	1.065	0.575	-	0.4407		
50981C/50981	2	6	198.333	139.724	6	761.667	613.801	-	0.2788	6	0.493	0.377	6	0.916	0.536	-	0.5233		
Habitat Means			248.333	123.290		699.847	483.120	-			0.687	0.363		1.249	0.577	-			
Fisher's			Power	0.010		Power-50%	0.231	P-value	0.1326	Power	0.004		Power-50%	0.221	P-value	0.1474			
Stouffer's			Power	---		Power-50%	0.508	P-value	0.0709	Power	---		Power-50%	---	P-value	0.0791			
C15.1C/C15.1	3	6	311.433	242.552	5	705.320	273.301	-	0.4927	6	1.706	1.209	5	1.863	0.736	-	0.8648		
50981C/50221	3	5	646.000	326.552	1	213.300	---	+	---	5	1.225	0.802	1	0.693	---	+	---		
50981C/50981	3	5	646.000	326.552	3	90.000	75.498	+	0.1180	5	1.225	0.802	3	0.598	0.561	+	0.5189		
Habitat Means			534.478	298.552		336.207	174.400	+			1.385	0.938		1.051	0.649	+			
Fisher's			Power	0.000		Power-50%	0.000	P-value	0.1829	Power	0.000		Power-50%	0.000	P-value	0.4294			
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.2674	Power	0.000		Power-50%	0.000	P-value	0.3685			

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	15.000	13.102	6	76.667	38.181	-	0.1980	6	0.113	0.095	6	0.915	0.531	-	0.2508		
50981C/50221	1	6	0.000	0.000	6	5.000	3.416	-	0.1784	6	0.000	0.000	6	0.028	0.028	-	0.3243		
50981C/50981	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			5.000	4.367		27.222	13.866	-			0.038	0.032		0.314	0.186	-			
Fisher's			Power	---		Power-50%	---	P-value	0.0933	Power	0.006		Power-50%	0.010	P-value	0.1639			
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0642	Power	0.012		Power-50%	0.000	P-value	0.1090			
C15.1C/C15.1	2	6	35.000	24.324	6	556.117	247.122	-	0.1044	6	0.277	0.235	6	2.681	1.287	-	0.3241		
50981C/50221	2	6	46.667	28.008	4	347.500	311.913	-	0.5987	6	3.132	2.412	4	2.037	1.522	+	0.6858		
50981C/50981	2	6	46.667	28.008	6	180.000	86.673	-	1.0000	6	3.132	2.412	6	3.088	1.338	+	1.0000		
Habitat Means			42.778	26.780		361.206	215.236	-			2.180	1.686		2.602	1.382	+			
Fisher's			Power	0.064		Power-50%	0.256	P-value	0.1377	Power	0.012		Power-50%	0.045	P-value	0.6928			
Stouffer's			Power	0.102		Power-50%	0.399	P-value	0.1072	Power	0.041		Power-50%	0.212	P-value	0.6316			
C15.1C/C15.1	3	6	200.667	148.114	5	815.320	359.393	-	0.3337	6	2.810	2.040	5	4.149	2.466	-	0.9411		
50981C/50221	3	5	492.000	304.654	1	0.000	---	+	---	5	9.039	5.117	1	0.000	---	+	---		
50981C/50981	3	5	492.000	304.654	3	158.333	155.840	+	0.1588	5	9.039	5.117	3	1.583	1.558	+	0.1072		
Habitat Means			394.889	252.474		324.551	257.617	+			6.963	4.091		1.911	2.012	+			
Fisher's			Power	0.000		Power-50%	0.003	P-value	0.2458	Power	0.000		Power-50%	0.003	P-value	0.1295			
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.3771	Power	0.000		Power-50%	0.000	P-value	0.1385			

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

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Table D-84. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, June 1990. (Continued.)

Errant polychaetes - abundance (#/m ²)										Errant polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power	---			Power-50%	---		P-value	0.6552	Power	---			Power-50%	---		P-value	0.6552	
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---			Power-50%	---		P-value	0.5000	
C15.1C/C15.1	2	6	11.667	11.667	6	10.000	6.831	+	0.9608	6	0.007	0.007	6	2.340	1.551	-	0.2639		
50981C/50221	2	6	18.333	11.377	4	0.000	0.000	+	0.6291	6	0.047	0.047	4	0.000	0.000	+	0.2723		
50981C/50981	2	6	18.333	11.377	6	52.767	52.109	-	1.0000	6	0.047	0.047	6	0.851	0.697	-	0.4678		
Habitat Means			16.111	11.474		20.922	19.647	+			0.034	0.034		1.064	0.749	-			
Fisher's	Power	0.133			Power-50%	0.388		P-value	0.5227 y	Power	0.066			Power-50%	0.050		P-value	0.2984	
Stouffer's	Power	0.193			Power-50%	0.485		P-value	0.3795	Power	0.012			Power-50%	0.189		P-value	0.3335	
C15.1C/C15.1	3	6	297.217	261.388	5	532.400	369.211	-	0.3795	6	8.164	5.802	5	13.080	8.036	-	0.2527		
50981C/50221	3	5	436.000	175.231	1	0.000		+	----	5	2.212	1.852	1	0.000		+	----		
50981C/50981	3	5	436.000	175.231	3	3.333	3.333	+	0.0627	5	2.212	1.852	3	0.003	0.003	+	0.0635		
Habitat Means			389.739	203.950		178.578	186.272	+			4.196	3.169		4.361	4.020	+			
Fisher's	Power	0.032			Power-50%	0.097		P-value	0.1187	Power	0.003			Power-50%	0.006		P-value	0.1272 y	
Stouffer's	Power	0.065			Power-50%	0.160		P-value	0.2435	Power	0.009			Power-50%	0.032		P-value	0.3073	

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

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Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	8.883	8.883	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	-	0.3632		
50981C/50221	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
50981C/50981	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			2.961	2.961		1.111	1.111	-			0.000	0.000		0.000	0.000	+			
Fisher's	Power	---			Power-50%	---		P-value	0.5186	Power	---			Power-50%	---		P-value	0.5186 y	
Stouffer's	Power	---			Power-50%	---		P-value	0.5000	Power	---			Power-50%	---		P-value	0.5000	
C15.1C/C15.1	2	6	11.667	11.667	6	0.000	0.000	+	0.5236	6	0.015	0.015	6	0.000	0.000	-	0.3632		
50981C/50221	2	6	20.717	18.788	4	0.000	0.000	+	0.3138	6	0.001	0.001	4	0.000	0.000	-	0.1747		
50981C/50981	2	6	20.717	18.788	6	12.217	8.461	+	0.6416	6	0.000	0.000	6	0.058	0.052	-	0.2276		
Habitat Means			17.700	16.414		4.072	2.820	+			0.005	0.005		0.019	0.017	+			
Fisher's	Power	0.575			Power-50%	0.149		P-value	0.1937	Power	0.633			Power-50%	0.905		P-value	0.2018 y	
Stouffer's	Power	0.569			Power-50%	0.246		P-value	0.1116	Power	0.083			Power-50%	0.940		P-value	0.2703	
C15.1C/C15.1	3	6	120.550	100.468	5	224.000	221.508	-	0.7811	6	0.243	0.170	5	0.160	0.160	+	0.4641		
50981C/50221	3	5	622.000	335.550	1	0.000		+	----	5	1.394	0.619	1	0.000		+	----		
50981C/50981	3	5	622.000	335.550	3	0.000	0.000	+	0.0198	5	1.394	0.619	3	0.000	0.000	-	0.0188		
Habitat Means			454.850	257.189		74.667	110.754	+			1.010	0.469		0.053	0.080	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0369	Power	---			Power-50%	---		P-value	0.0155	
Stouffer's	Power	---			Power-50%	0.161		P-value	0.0733	Power	---			Power-50%	---		P-value	0.0147	

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

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Table D-84. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, June 1990. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	9052.217	4039.503	6	2490.000	1212.694	+	0.0636	6	7.338	2.736	6	1.882	0.920	+	0.0797		
50981C/50221	1	6	2693.333	1365.830	6	4641.300	1883.905	-	0.5718	6	0.868	0.330	6	2.454	1.004	-	0.2815		
50981C/50981	1	6	2693.333	1365.830	6	5188.333	3124.809	-	0.4697	6	0.868	0.330	6	3.608	2.005	-	0.9290		
Habitat Means			4812.961	2257.054		4106.544	2073.803	-			3.025	1.132		2.648	1.310	-			
Fisher's			Power	0.036		Power-50%	0.003	P-value	0.4855xy	Power	0.065		Power-50%	0.004	P-value	0.4771xy			
Stouffer's			Power	0.037		Power-50%	0.005	P-value	0.6284	Power	0.061		Power-50%	0.005	P-value	0.6326			
C15.1C/C15.1	2	6	6385.483	1656.245	6	9253.333	2221.448	-	0.1941	6	5.117	1.631	6	4.827	1.272	+	0.4731		
50981C/50221	2	6	1623.333	749.589	4	3737.250	1760.115	-	0.3879	6	0.584	0.293	4	1.761	1.039	-	0.7516		
50981C/50981	2	6	1623.333	749.589	6	6065.566	1723.743	-	0.0487	6	0.584	0.293	6	3.266	1.114	-	0.1021		
Habitat Means			3210.716	1051.808		6352.050	1901.769	-			2.095	0.739		3.285	1.142	-			
Fisher's			Power	---		Power-50%	---	P-value	0.0175	Power	0.000		Power-50%	0.000	P-value	0.2071			
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0085	Power	0.000		Power-50%	0.000	P-value	0.2381			
C15.1C/C15.1	3	6	4891.900	1884.028	5	9028.400	1216.967	-	0.1036	6	3.431	1.792	5	2.515	0.346	+	0.3298		
50981C/50221	3	5	1577.000	497.236	1	9983.300	---	-	----	5	0.573	0.186	1	3.623	---	-	----		
50981C/50981	3	5	1577.000	497.236	3	10995.000	5656.330	-	0.5415	5	0.573	0.186	3	5.173	2.644	-	0.4561		
Habitat Means			2681.967	959.500		10002.233	3436.649	-			1.526	0.721		3.770	1.495	+			
Fisher's			Power	---		Power-50%	---	P-value	0.0739	Power	0.000		Power-50%	0.000	P-value	0.3897 y			
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0568	Power	0.000		Power-50%	0.000	P-value	0.4356			

x At least one pair differs significantly in abundance (direction of overall tests).

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

z Only one site pair.

Table 48, Page 23, December 11, 1994

Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	10943.301	4146.539	6	7665.000	3764.656	+	0.4214	6	98.043	65.734	6	467.723	255.418	-	0.0677		
50981C/50221	1	6	3805.000	1291.920	6	5815.566	1714.729	-	0.6208	6	95.624	63.796	6	188.234	177.942	-	0.6383		
50981C/50981	1	6	3805.000	1291.920	6	6518.333	3297.889	-	0.5050	6	95.624	63.796	6	77.952	68.982	-	0.9284		
Habitat Means			6184.434	2243.460		6666.300	2925.758	-			96.430	64.442		244.636	167.447	-			
Fisher's			Power	0.000		Power-50%	0.000	P-value	0.4736	Power	0.000		Power-50%	0.000	P-value	0.1124			
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.4184	Power	0.000		Power-50%	0.000	P-value	0.1013			
C15.1C/C15.1	2	6	9361.934	1731.912	6	13710.000	2674.281	-	0.0863	6	167.708	61.973	6	1139.167	326.520	-	0.0261		
50981C/50221	2	6	4136.183	1118.805	4	6457.650	1242.722	-	0.4331	6	613.090	271.262	4	1042.990	889.308	-	0.9532		
50981C/50981	2	6	4136.183	1118.805	6	9343.866	1863.936	-	0.0422	6	613.090	271.262	6	438.324	137.798	-	0.5710		
Habitat Means			5878.100	1323.174		9837.172	1926.980	-			464.629	201.499		873.494	451.209	-			
Fisher's			Power	---		Power-50%	---	P-value	0.0086	Power	---		Power-50%	---	P-value	0.0937			
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0041	Power	0.000		Power-50%	0.000	P-value	0.1607			
C15.1C/C15.1	3	6	13294.766	2467.782	5	16748.619	1694.824	-	0.2362	6	772.722	387.559	5	369.913	107.019	+	0.9391		
50981C/50221	3	5	8138.000	1527.018	1	13566.600	---	-	----	5	557.052	125.025	1	128.057	---	-	----		
50981C/50981	3	5	8138.000	1527.018	3	12601.667	5680.328	-	0.8667	5	557.052	125.025	3	137.614	63.043	+	0.0914		
Habitat Means			9856.922	1840.606		14305.629	3687.576	-			628.942	212.536		211.861	85.031	+			
Fisher's			Power	0.000		Power-50%	0.000	P-value	0.2133	Power	0.000		Power-50%	0.000	P-value	0.1039			
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.1495	Power	0.000		Power-50%	0.000	P-value	0.1061			

* At least one site pair showed a significant difference in biomass between habitats.
 y direction of difference between habitat means is different than direction of overall tests.
 z only one site pair.

Table D-84, Page 23, December 21, 1994

Table D-85. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m^2)										Lottidae - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	1.667	1.667	6	20.000	11.832	-	0.1726	6	0.048	0.048	6	6.178	4.131	-	0.1567
50981C/50221	1	6	7.000	7.000	6	0.000	0.000	+	0.3632	6	0.829	0.829	6	0.000	0.000	+	0.3632
50981C/50981	1	6	7.000	7.000	3	0.000	0.000	+	0.3632	6	0.829	0.829	3	0.000	0.000	+	0.3632
Habitat Means			5.222	5.222		6.667	3.944	+			0.569	0.569		2.059	1.377		
Fisher's		Power	0.844		Power-50%	---		P-value	0.3204 y	Power	0.282		Power-50%	---		P-value	0.3221 y
Stouffer's		Power	0.665		Power-50%	---		P-value	0.3966	Power	0.186		Power-50%	---		P-value	0.4083
C15.1C/C15.1	2	6	11.667	9.804	6	41.667	14.240	-	0.0019	6	4.077	3.239	6	4.948	1.837	-	0.7307
50981C/50221	2	5	10.000	3.162	4	0.000	0.000	+	0.0149	5	1.528	0.632	4	0.000	0.000	-	0.6041
50981C/50981	2	5	10.000	3.162	3	0.000	0.000	+	0.0239	5	1.528	0.632	3	0.000	0.000	+	0.6337
Habitat Means			10.556	5.376		13.889	4.747	+			2.378	1.501		1.649	0.612	+	
Fisher's		Power	---		Power-50%	---		P-value	0.0048xy	Power	0.503		Power-50%	0.220		P-value	0.4692
Stouffer's		Power	0.634		Power-50%	0.297		P-value	0.1795	Power	0.631		Power-50%	0.315		P-value	0.3536
C15.1C/C15.1	3	2	5.000	5.000	5	78.000	29.052	-	0.0248	2	0.120	0.120	5	12.826	6.930	-	0.0164
50981C/50221	3	3	30.000	30.000	0	--	--	----	----	3	2.893	2.893	0	----	----	----	----
50981C/50981	3	3	30.000	30.000	2	0.000	0.000	+	0.4226	3	2.893	2.893	2	0.000	0.000	+	0.4226
Habitat Means			21.667	21.667		39.000	14.526	-			1.969	1.969		6.413	3.465	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0550	Power	---		Power-50%	---		P-value	0.0391
Stouffer's		Power	0.000		Power-50%	---		P-value	0.1537	Power	0.000		Power-50%	---		P-value	0.1292

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

Table D 85, Page 1, December 21, 1994

Lottia pelta - abundance (#/m^2)										Lottia Pelta - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	1	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's		Power	---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
C15.1C/C15.1	2	6	1.667	1.667	6	3.333	3.333	-	0.5699	6	3.303	3.303	6	0.437	0.437	+	0.8475
50981C/50221	2	5	2.000	2.000	4	0.000	0.000	+	0.5574	5	0.182	0.182	4	0.000	0.000	+	0.5055
50981C/50981	2	5	2.000	2.000	3	0.000	0.000	+	0.5897	5	0.182	0.182	3	0.000	0.000	+	0.5405
Habitat Means			1.889	1.889		1.111	1.111	+			1.222	1.222		0.146	0.146	+	
Fisher's		Power	---		Power-50%	---		P-value	0.4613	Power	---		Power-50%	---		P-value	0.3131
Stouffer's		Power	---		Power-50%	---		P-value	0.3738	Power	---		Power-50%	---		P-value	0.1981
C15.1C/C15.1	3	2	0.000	0.000	5	38.000	17.436	-	0.0207	2	0.000	0.000	5	5.390	2.185	-	0.0170
50981C/50221	3	3	20.000	20.000	0	--	--	----	----	3	1.183	1.183	0	--	--	----	----
50981C/50981	3	3	20.000	20.000	2	0.000	0.000	+	0.4226	3	1.183	1.183	2	0.000	0.000	+	0.4226
Habitat Means			13.333	13.333		19.000	8.718	-			0.789	0.789		2.695	1.093	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0474	Power	---		Power-50%	---		P-value	0.0403
Stouffer's		Power	0.000		Power-50%	---		P-value	0.1425	Power	0.000		Power-50%	---		P-value	0.1311

Table D-85. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, July 1990. (Continued.)

Tectura persona - abundance (#/m^2)										Tectura persona - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	15.000	11.180	-	0.0935	6	0.000	0.000	6	4.800	3.972	-	0.0823		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		5.000	3.727	-			0.000	0.000		1.600	1.324	-			
Fisher's	Power		0.008		Power-50%		---	P-value	0.1794	Power	0.001		Power-50%		---	P-value	0.1651		
Stouffer's	Power		0.001		Power-50%		---	P-value	0.1664	Power	0.000		Power-50%		---	P-value	0.1578		
C15.1C/C15.1	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.138	0.138	-	0.3632		
50981C/50221	2	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
50981C/50981	2	5	0.000	0.000	3	0.000	0.000	o	1.0000	5	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.046	0.046	-			
Fisher's	Power		---		Power-50%		---	P-value	0.4028	Power	---		Power-50%		---	P-value	0.4028		
Stouffer's	Power		---		Power-50%		---	P-value	0.2998	Power	---		Power-50%		---	P-value	0.2998		
C15.1C/C15.1	3	2	0.000	0.000	5	6.000	6.000	-	0.3739	2	0.000	0.000	5	0.462	0.462	-	0.3739		
50981C/50221	3	3	0.000	0.000	0	---	---	---	---	3	0.000	0.000	0	---	---	---	---		
50981C/50981	3	3	0.000	0.000	2	0.000	0.000	o	1.0000	3	0.000	0.000	2	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		3.000	3.000	-			0.000	0.000		0.231	0.231	-			
Fisher's	Power		---		Power-50%		---	P-value	0.3150	Power	---		Power-50%		---	P-value	0.3150		
Stouffer's	Power		---		Power-50%		---	P-value	0.2648	Power	---		Power-50%		---	P-value	0.2648		

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-85, Page 3, December 21, 1994

Tectura scutum - abundance (#/m^2)										Tectura scutum - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power	---		Power-50%		---	P-value	0.6552		
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power	---		Power-50%		---	P-value	0.5000		
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	2	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
50981C/50981	2	5	0.000	0.000	3	0.000	0.000	o	1.0000	5	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power	---		Power-50%		---	P-value	0.6552		
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power	---		Power-50%		---	P-value	0.5000		
C15.1C/C15.1	3	2	0.000	0.000	5	6.000	6.000	-	0.3739	2	0.000	0.000	5	2.316	2.316	-	0.3739		
50981C/50221	3	3	0.000	0.000	0	--	--	----	----	3	0.000	0.000	0	--	--	----	----		
50981C/50981	3	3	0.000	0.000	2	0.000	0.000	o	1.0000	3	0.000	0.000	2	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		3.000	3.000	-			0.000	0.000		1.158	1.158	-			
Fisher's	Power		---		Power-50%		---	P-value	0.3150	Power	---		Power-50%		---	P-value	0.3150		
Stouffer's	Power		---		Power-50%		---	P-value	0.2648	Power	---		Power-50%		---	P-value	0.2648		

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

Table D-85, Page 4, December 21, 1994

Table D-85. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, July 1990. (Continued.)

Balanomorpha - abundance (#/m ²)										Balanomorpha - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	-	6	26.667	22.755	6	3586.667	1982.368	-	0.0011	6	1.278	0.877	6	196.567	104.807	-	0.0021
50981C/50221	1	6	1881.283	1104.119	6	192.767	42.224	+	0.9956	6	30.601	16.643	6	24.082	7.336	+	0.4172
50981C/50981	1	6	1881.283	1104.119	3	6.667	6.667	+	0.2037	6	30.601	16.643	3	0.000	0.000	+	0.0438
Habitat Means			1263.078	743.664		1262.034	677.086	+			20.827	11.388		73.550	37.381	-	
Fisher's		Power	0.105		Power-50%	0.172	P-value	0.4272x		Power	---		Power-50%	---	P-value	0.0954xy	
Stouffer's		Power	0.349		Power-50%	0.485	P-value	0.8744		Power	0.274		Power-50%	0.444	P-value	0.5570	
C15.1C/C15.1	2	6	98.900	66.275	6	2541.667	762.332	-	0.0001	6	8.376	6.226	6	271.480	124.984	-	0.0080
50981C/50221	2	5	5168.660	2903.530	4	1404.600	646.355	+	0.2438	5	189.225	81.013	4	182.331	88.989	+	0.7580
50981C/50981	2	5	5168.660	2903.530	3	70.033	32.140	+	0.0034	5	189.225	81.013	3	10.392	5.116	+	0.0206
Habitat Means			3478.740	1957.778		1338.767	480.276	+			128.942	56.084		154.734	73.030	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0094x		Power	---		Power-50%	---	P-value	0.0853xy	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.4530		Power	0.000		Power-50%	0.000	P-value	0.5067	
C15.1C/C15.1	3	2	546.650	476.650	5	2310.000	831.084	-	0.1560	2	5.215	3.385	5	191.956	95.604	-	0.1853
50981C/50221	3	3	3386.667	2641.037	0	--	--	----		3	265.048	196.958	0	--	--	----	
50981C/50981	3	3	3386.667	2641.037	2	790.000	570.000	+	0.6624	3	265.048	196.958	2	111.115	73.275	-	0.7952
Habitat Means			2439.995	1919.575		1550.000	700.542	-			178.437	132.434		151.536	84.440	-	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.2062 y		Power	0.000		Power-50%	0.000	P-value	0.2169 y	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.2436		Power	0.000		Power-50%	0.000	P-value	0.2256	

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

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

z Only one site pair.

Table D-85, Page 5. December 21, 1994

Chthamalus dalli - abundance (#/m^2)										Chthamalus dalli - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	0.000	0.000	6	620.000	465.446	-	0.1019	6	0.000	0.000	6	6.998	4.977	-	0.0890
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	1	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		206.667	155.149	-			0.000	0.000		2.333	1.659	-	
Fisher's		Power	0.000		Power-50%	---	P-value	0.1896		Power	0.000		Power-50%	---	P-value	0.1737	
Stouffer's		Power	0.000		Power-50%	---	P-value	0.1724		Power	0.000		Power-50%	---	P-value	0.1630	
C15.1C/C15.1	2	6	0.000	0.000	6	60.000	35.496	-	0.0367	6	0.000	0.000	6	0.558	0.397	-	0.0317
50981C/50221	2	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000
50981C/50981	2	5	0.000	0.000	3	0.000	0.000	o	1.0000	5	0.000	0.000	3	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		20.000	11.832	-			0.000	0.000		0.186	0.132	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0958		Power	---		Power-50%	---	P-value	0.0865	
Stouffer's		Power	0.000		Power-50%	---	P-value	0.1138		Power	0.000		Power-50%	---	P-value	0.1074	
C15.1C/C15.1	3	2	0.000	0.000	5	256.000	236.360	-	0.1110	2	0.000	0.000	5	1.588	1.405	-	0.0830
50981C/50221	3	3	0.000	0.000	0	--	--	----		3	0.000	0.000	0	--	--	----	
50981C/50981	3	3	0.000	0.000	2	0.000	0.000	o	1.0000	3	0.000	0.000	2	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		128.000	118.180	-			0.000	0.000		0.794	0.703	-	
Fisher's		Power	0.001		Power-50%	---	P-value	0.1272		Power	0.002		Power-50%	---	P-value	0.1012	
Stouffer's		Power	0.000		Power-50%	---	P-value	0.1298		Power	0.000		Power-50%	---	P-value	0.1101	

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

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

z Only one site pair.

Table D-85, Page 6. December 21, 1994

Table D-85. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, July 1990. (Continued.)

Balanus glandula - abundance (#/m^2)										Balanus glandula - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	1.667	1.667	6	388.333	225.735	-	0.0001	6	0.222	0.222	6	51.930	31.754	-	0.0001		
50981C/50221	1	6	3.333	2.108	6	64.167	25.047	-	0.0044	6	0.262	0.256	6	10.876	5.805	-	0.0020		
50981C/50981	1	6	3.333	2.108	3	6.667	6.667	-	0.8352	6	0.262	0.256	3	0.000	0.000	+	0.4192		
Habitat Means			2.778	1.961		153.056	85.816	-			0.249	0.245		20.935	12.520	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0000	Power	---		Power-50%	---		P-value	0.0000		
Stouffer's	Power		---		Power-50%	0.891		P-value	0.0000	Power	---		Power-50%	---		P-value	0.0002		
C15.1C/C15.1	2	6	5.000	3.416	6	435.000	257.226	-	0.0038	6	1.040	0.666	6	122.702	80.190	-	0.0153		
50981C/50221	2	5	88.660	36.852	4	192.500	74.428	-	0.3550	5	5.001	3.082	4	28.501	9.427	-	0.2163		
50981C/50981	2	5	88.660	36.852	3	12.233	2.233	+	0.5435	5	5.001	3.082	3	1.928	1.488	+	0.9528		
Habitat Means			60.773	25.707		213.244	111.296	-			3.681	2.277		51.044	30.368	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0108	Power	---		Power-50%	---		P-value	0.0168		
Stouffer's	Power		---		Power-50%	0.245		P-value	0.0318	Power	---		Power-50%	---		P-value	0.0187		
C15.1C/C15.1	3	2	10.000	10.000	5	250.000	117.132	-	0.2506	2	1.530	1.530	5	28.784	17.527	-	0.4556		
50981C/50221	3	3	248.333	207.291	0	--	--	---		3	41.293	39.892	0	--	--	---			
50981C/50981	3	3	248.333	207.291	2	27.500	22.500	+	0.7818	3	41.293	39.892	2	5.300	3.570	-	0.7269		
Habitat Means			168.889	141.527		138.750	69.816	-			28.039	27.105		17.042	10.549	-			
Fisher's	Power		0.000		Power-50%	0.099		P-value	0.2727 y	Power	0.000		Power-50%	0.051		P-value	0.4250 y		
Stouffer's	Power		0.000		Power-50%	0.167		P-value	0.2686	Power	0.000		Power-50%	0.151		P-value	0.3894		

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

Table D-85, Page 7. December 21, 1994

Semibalanus balanoides - abundance (#/m^2)										Semibalanus balanoides - biomass (g/m^2)									
Site Pair	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	18.333	18.333	6	2358.333	1279.738	-	0.0008	6	0.642	0.642	6	136.345	68.768	-	0.0002		
50981C/50221	1	6	606.000	269.904	6	108.050	25.415	+	0.9611	6	25.217	16.180	6	12.880	2.651	+	0.4271		
50981C/50981	1	6	606.000	269.904	3	0.000	0.000	-	0.0419	6	25.217	16.180	3	0.000	0.000	+	0.0461		
Habitat Means			410.111	186.047		822.128	435.051	-			17.025	11.001		49.742	23.806	-			
Fisher's	Power		0.387		Power-50%	0.142	P-value	0.1628 _{xy}		Power	0.183		Power-50%	0.072	P-value	0.1006 _{xy}			
Stouffer's	Power		0.645		Power-50%	0.387	P-value	0.7682		Power	0.456		Power-50%	0.310	P-value	0.7044			
C15.1C/C15.1	2	6	47.783	26.259	6	1680.000	571.180	-	0.0001	6	5.609	3.967	6	141.873	49.080	-	0.0781		
50981C/50221	2	5	3586.000	1835.818	4	1107.500	588.959	+	0.2531	5	172.962	73.874	4	152.015	84.180	-	0.8094		
50981C/50981	2	5	3586.000	1835.818	3	48.900	36.376	+	0.0005	5	172.962	73.874	3	8.292	5.212	+	0.0914		
Habitat Means			2406.594	1232.632		945.467	398.838	+			117.178	50.572		100.727	46.257	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0021 _x		Power	0.000		Power-50%	0.000	P-value	0.2337 _x			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.3360		Power	0.000		Power-50%	0.000	P-value	0.4616			
C15.1C/C15.1	3	2	291.650	251.650	5	1534.000	868.266	-	0.5945	2	3.531	1.889	5	159.960	96.996	-	0.3923		
50981C/50221	3	3	2755.000	2077.139	0	--	--	---		3	210.663	145.338	0	--	--	---			
50981C/50981	3	3	2755.000	2077.139	2	690.000	540.000	+	0.6076	3	210.663	145.338	2	102.697	73.847	-	0.7606		
Habitat Means			1933.883	1468.643		1112.000	704.133	-			141.619	97.522		131.329	85.421	-			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.5329 _y		Power	0.000		Power-50%	0.000	P-value	0.3777 _y			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.4547		Power	0.000		Power-50%	0.000	P-value	0.3484			

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

Table D-85, Page 8. December 21, 1994

Table D-85. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, July 1990. (Continued.)

Lacuna spp. - abundance (#/m^2)										Lacuna spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.085	0.085	-	0.3632		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		1.111	1.111	-			0.000	0.000		0.028	0.028	-			
Fisher's	Power		---		Power-50%	---		P-value	0.4028	Power		---		Power-50%	---		P-value	0.4028	
Stouffer's	Power		---		Power-50%	---		P-value	0.2998	Power		---		Power-50%	---		P-value	0.2998	
C15.1C/C15.1	2	6	0.000	0.000	6	3.333	2.108	-	0.1747	6	0.000	0.000	6	0.012	0.008	-	0.1790		
50981C/50221	2	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
50981C/50981	2	5	0.000	0.000	3	0.000	0.000	o	1.0000	5	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		1.111	0.703	-			0.000	0.000		0.004	0.003	-			
Fisher's	Power		0.259		Power-50%	---		P-value	0.2650	Power		0.130		Power-50%	---		P-value	0.2689	
Stouffer's	Power		0.259		Power-50%	---		P-value	0.2166	Power		0.033		Power-50%	---		P-value	0.2189	
C15.1C/C15.1	3	2	0.000	0.000	5	22.000	22.000	-	0.3739	2	0.000	0.000	5	0.018	0.018	-	0.3739		
50981C/50221	3	3	0.000	0.000	0	--	--	----		3	0.000	0.000	0	--	--	----			
50981C/50981	3	3	0.000	0.000	2	0.000	0.000	o	1.0000	3	0.000	0.000	2	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		11.000	11.000	-			0.000	0.000		0.009	0.009	-			
Fisher's	Power		---		Power-50%	---		P-value	0.3150	Power		---		Power-50%	---		P-value	0.3150	
Stouffer's	Power		---		Power-50%	---		P-value	0.2648	Power		---		Power-50%	---		P-value	0.2648	

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

Table D 85. Page 9. December 21, 1994

Littorina spp. - abundance (#/m^2)										Littorina spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	11.667	7.491	6	970.000	352.023	-	0.0006	6	3.840	2.492	6	121.128	50.706	-	0.0156		
50981C/50221	1	6	375.283	162.370	6	100.350	58.161	+	0.9043	6	56.584	37.233	6	18.542	14.813	+	0.4096		
50981C/50981	1	6	375.283	162.370	3	0.000	0.000	+	0.0313	6	56.584	37.233	3	0.000	0.000	+	0.3181		
Habitat Means			254.078	110.744		356.783	136.728	+			39.003	25.653		46.557	21.840	+			
Fisher's	Power		0.689		Power-50%	0.365	P-value	0.1288xy		Power	0.590		Power-50%	0.439	P-value	0.3336xy			
Stouffer's	Power		0.889		Power-50%	0.567	P-value	0.7481		Power	0.863		Power-50%	0.617	P-value	0.6346			
C15.1C/C15.1	2	6	243.333	69.511	6	808.333	139.174	-	0.0023	6	32.664	8.343	6	51.860	16.876	-	0.2569		
50981C/50221	2	5	476.660	141.492	4	429.275	169.873	+	0.8067	5	41.440	12.226	4	28.819	13.486	+	0.5171		
50981C/50981	2	5	476.660	141.492	3	6.667	6.667	+	0.0340	5	41.440	12.226	3	1.413	1.413	+	0.0678		
Habitat Means			398.884	117.498		414.758	105.238	+			38.515	10.932		27.364	10.592	+			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.1260xy		Power	0.000		Power-50%	0.000	P-value	0.1356			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.6535		Power	0.000		Power-50%	0.000	P-value	0.2195			
C15.1C/C15.1	3	2	95.000	85.000	5	804.000	449.228	-	0.1085	2	36.720	36.510	5	16.352	5.986	+	0.6016		
50981C/50221	3	3	255.000	62.650	0	--	--	----		3	25.287	7.627	0	--	--	----			
50981C/50981	3	3	255.000	62.650	2	247.500	227.500	+	0.5138	3	25.287	7.627	2	18.013	16.898	+	0.4067		
Habitat Means			201.667	70.100		525.750	338.364	-			29.098	17.255		17.183	11.442	+			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.1698		Power	0.000		Power-50%	0.000	P-value	0.2321			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.2503		Power	0.000		Power-50%	0.000	P-value	0.1697			

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

Table D 85. Page 10. December 21, 1994

Table D-85. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, July 1990. (Continued.)

Littorina sitkana - abundance (#/m^2)										Littorina sitkana - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	11.667	7.491	6	968.333	350.622	-	0.0006	6	3.840	2.492	6	121.123	50.701	-	0.0134		
50981C/50221	1	6	360.517	157.491	6	90.900	52.081	+	0.9161	6	55.984	37.147	6	18.164	14.587	+	0.4115		
50981C/50981	1	6	360.517	157.491	3	0.000	0.000	+	0.0327	6	55.984	37.147	3	0.000	0.000	+	0.3223		
Habitat Means			244.234	107.491		353.078	134.234				38.603	25.595		46.429	21.763				
Fisher's		Power	0.669		Power-50%	0.332	P-value	0.1338 _{xy}		Power	0.587		Power-50%	0.406	P-value	0.3370 _{xy}			
Stouffer's		Power	0.875		Power-50%	0.544	P-value	0.7541		Power	0.854		Power-50%	0.601	P-value	0.6382			
C15.1C/C15.1	2	6	241.667	69.691	6	766.667	147.188	-	0.0024	6	32.529	8.324	6	51.163	16.739	-	0.2669		
50981C/50221	2	5	412.660	128.839	4	349.275	118.398	+	0.7257	5	38.267	12.447	4	27.186	12.282	+	0.5660		
50981C/50981	2	5	412.660	128.839	3	6.667	6.667	+	0.0479	5	38.267	12.447	3	1.413	1.413	+	0.0884		
Habitat Means			355.662	109.123		374.203	90.751	+			36.354	11.073		26.587	10.145	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1477 _{xy}		Power	0.000		Power-50%	0.000	P-value	0.1708			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.6584		Power	0.000		Power-50%	0.000	P-value	0.2501			
C15.1C/C15.1	3	2	95.000	85.000	5	748.000	454.746	-	0.1412	2	36.720	36.510	5	14.290	6.354	+	0.6937		
50981C/50221	3	3	158.333	61.260	0	--	--	----		3	20.685	7.743	0	--	--	----			
50981C/50981	3	3	158.333	61.260	2	240.000	220.000	-	0.7991	3	20.685	7.743	2	17.410	16.295	+	0.5077		
Habitat Means			137.222	69.173		494.000	337.373	-			26.030	17.332		15.850	11.325	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1289		Power	0.000		Power-50%	0.000	P-value	0.3020			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1112		Power	0.000		Power-50%	0.000	P-value	0.2277			

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

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

z Only one site pair.

Table 8-E, page 11, December 21, 1994

Littorina scutulata - abundance (#/m^2)										Littorina scutulata - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	1.667	1.667	-	0.8719	6	0.000	0.000	6	0.005	0.005	-	0.3632		
50981C/50221	1	6	14.767	10.951	6	9.450	6.348	+	0.6077	6	0.600	0.289	6	0.378	0.239	+	0.8794		
50981C/50981	1	6	14.767	10.951	3	0.000	0.000	+	0.2491	6	0.600	0.289	3	0.000	0.000	+	0.0759		
Habitat Means			9.845	7.301		3.706	2.672	+			0.400	0.193		0.128	0.081	+			
Fisher's		Power	0.032		Power-50%	0.093	P-value	0.2614		Power	0.156		Power-50%	0.310	P-value	0.1982			
Stouffer's		Power	0.001		Power-50%	0.137	P-value	0.1925		Power	0.005		Power-50%	0.349	P-value	0.2784			
C15.1C/C15.1	2	6	1.667	1.667	6	41.667	20.235	-	0.0100	6	0.135	0.135	6	0.697	0.292	-	0.6907		
50981C/50221	2	5	64.000	22.935	4	80.000	61.644	-	0.3024	5	3.173	1.684	4	1.633	1.209	+	0.3515		
50981C/50981	2	5	64.000	22.935	3	0.000	0.000	-	0.0005	5	3.173	1.684	3	0.000	0.000	+	1.0000		
Habitat Means			43.222	15.846		40.556	27.293	-			2.160	1.168		0.777	0.500	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0257 _{xy}		Power	0.016		Power-50%	0.001	P-value	0.4563			
Stouffer's		Power	0.006		Power-50%	0.010	P-value	0.4709		Power	0.001		Power-50%	0.000	P-value	0.3789			
C15.1C/C15.1	3	2	0.000	0.000	5	56.000	24.819	-	0.0010	2	0.000	0.000	5	2.062	1.416	-	0.0036		
50981C/50221	3	3	96.667	3.333	0	--	--	----		3	4.602	0.305	0	--	--	----			
50981C/50981	3	3	96.667	3.333	2	7.500	7.500	+	0.2605	3	4.602	0.305	2	0.602	0.602	+	0.4000		
Habitat Means			64.445	2.222		31.750	16.160	-			3.068	0.203		1.332	1.009	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0038 _y		Power	---		Power-50%	---	P-value	0.0109 _y			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0629		Power	---		Power-50%	---	P-value	0.0716			

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

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

z Only one site pair.

Table 8-E, page 12, December 21, 1994

Table D-85, Page 11, December 21, 1994

Table D-85, Page 12, December 21, 1994

Table D-85. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, July 1990. (Continued.)

Mytilus edulis - abundance (#/m^2)										Mytilus edulis - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	68.333	50.952	6	270.000	130.588	-	0.0629	6	3.312	2.127	6	261.455	100.470	-	0.2563		
50981C/50221	1	6	587.433	382.744	6	109.700	86.745	+	0.4325	6	336.152	228.146	6	175.333	139.936	+	0.4762		
50981C/50981	1	6	587.433	382.744	3	10.000	10.000	+	0.0905	6	336.152	228.146	3	4.107	4.107	+	0.2338		
Habitat Means			414.400	272.147		129.900	75.778	+			225.205	152.806		146.965	81.504	+			
Fisher's	Power		0.007		Power-50%	0.039	P-value	0.1565x		Power	0.003		Power-50%	0.017	P-value	0.2823			
Stouffer's	Power		0.045		Power-50%	0.237	P-value	0.3607		Power	0.023		Power-50%	0.158	P-value	0.3288			
C15.1C/C15.1	2	6	164.217	93.469	6	778.333	322.319	-	0.0212	6	22.919	12.445	6	1120.275	447.101	-	0.0001		
50981C/50221	2	5	1021.340	153.375	4	170.725	96.409	+	0.0062	5	926.671	166.652	4	329.649	160.099	+	0.0392		
50981C/50981	2	5	1021.340	153.375	3	50.000	26.458	+	0.0006	5	926.671	166.652	3	124.200	87.937	-	1.0000		
Habitat Means			735.632	133.406		333.019	148.395	+			625.420	115.250		524.708	231.712	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0001x		Power	0.000		Power-50%	0.000	P-value	0.1600x			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0128		Power	0.000		Power-50%	0.000	P-value	0.8544			
C15.1C/C15.1	3	2	165.000	165.000	5	460.000	213.963	-	0.3626	2	251.795	251.795	5	652.404	405.490	-	0.5317		
50981C/50221	3	3	981.667	399.920	0	--	--	---	---	3	1061.212	473.430	0	--	--	---	---		
50981C/50981	3	3	981.667	399.920	2	285.000	265.000	-	0.2241	3	1061.212	473.430	2	583.340	574.160	+	0.3556		
Habitat Means			709.445	321.613		372.500	239.482	-			791.406	399.552		617.872	489.825	+			
Fisher's	Power		0.010		Power-50%	0.097	P-value	0.3109		Power	0.005		Power-50%	0.084	P-value	0.3971			
Stouffer's	Power		0.005		Power-50%	0.076	P-value	0.4145		Power	0.003		Power-50%	0.070	P-value	0.4169			

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

Table D-85, Page 13, December 21, 1994

Turtonia minuta - abundance (#/m^2)										Turtonia minuta - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power		---		Power-50%		---	P-value	0.6552	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
C15.1C/C15.1	2	6	0.000	0.000	6	13.333	11.450	-	0.1950	6	0.000	0.000	6	0.013	0.013	-	0.3182		
50981C/50221	2	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
50981C/50981	2	5	0.000	0.000	3	3.333	3.333	-	0.4226	5	0.000	0.000	3	0.003	0.003	-	0.4226		
Habitat Means			0.000	0.000		5.555	4.928	-			0.000	0.000		0.005	0.005	-			
Fisher's	Power		0.161		Power-50%		---	P-value	0.1653	Power		0.010		Power-50%		---	P-value	0.2258	
Stouffer's	Power		0.256		Power-50%		---	P-value	0.1129	Power		0.020		Power-50%		---	P-value	0.1494	
C15.1C/C15.1	3	2	0.000	0.000	5	2.000	2.000	-	0.3739	2	0.000	0.000	5	0.001	0.001	-	0.3739		
50981C/50221	3	3	0.000	0.000	0	--	--	---	---	3	0.000	0.000	0	--	--	---	---		
50981C/50981	3	3	0.000	0.000	2	0.000	0.000	o	1.0000	3	0.000	0.000	2	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		1.000	1.000	-			0.000	0.000		0.001	0.001	-			
Fisher's	Power		---		Power-50%		---	P-value	0.3150	Power		---		Power-50%		---	P-value	0.3150	
Stouffer's	Power		---		Power-50%		---	P-value	0.2648	Power		---		Power-50%		---	P-value	0.2648	

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

Table D-85, Page 14, December 21, 1994

Table D-85. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, July 1990. (Continued.)

Pagurus spp. - abundance (#/m ²)										Pagurus spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	10.000	6.325	-	0.1747	6	0.000	0.000	6	0.648	0.412	-	0.1747		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		3.333	2.108	-			0.000	0.000		0.216	0.137	-			
Fisher's	Power		0.264		Power-50%		---	P-value	0.2650	Power	0.350		Power-50%		---	P-value	0.2650		
Stouffer's	Power		0.264		Power-50%		---	P-value	0.2166	Power	0.186		Power-50%		---	P-value	0.2166		
C15.1C/C15.1	2	6	0.000	0.000	6	6.667	4.944	-	0.5034	6	0.000	0.000	6	0.415	0.288	-	0.2152		
50981C/50221	2	5	12.000	12.000	4	2.500	2.500	+	0.4130	5	0.730	0.730	4	0.030	0.030	-	0.8386		
50981C/50981	2	5	12.000	12.000	3	3.333	3.333	+	0.4917	5	0.730	0.730	3	1.067	1.067	-	0.6571		
Habitat Means			8.000	8.000		4.167	3.592	+			0.487	0.487		0.504	0.462	-			
Fisher's	Power		0.297		Power-50%		---	P-value	0.3654	Power	0.105		Power-50%		---	P-value	0.2553		
Stouffer's	Power		0.047		Power-50%		---	P-value	0.3145	Power	0.005		Power-50%		---	P-value	0.1965		
C15.1C/C15.1	3	2	5.000	5.000	5	10.000	7.746	-	0.9877	2	0.015	0.015	5	0.308	0.279	-	0.8082		
50981C/50221	3	3	10.000	10.000	0	--	--	---	---	3	0.910	0.910	0	--	--	---	---		
50981C/50981	3	3	10.000	10.000	2	2.500	2.500	-	0.8878	3	0.910	0.910	2	0.095	0.095	+	0.9979		
Habitat Means			8.333	8.333		6.250	5.123	-			0.612	0.612		0.202	0.187	-			
Fisher's	Power		0.038		Power-50%		---	P-value	0.5501	Power	0.007		Power-50%		---	P-value	0.5259		
Stouffer's	Power		0.038		Power-50%		---	P-value	0.4547	Power	0.010		Power-50%		---	P-value	0.4327		

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

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

z Only one site pair.

Table D-85. Page 15. December 21, 1994

Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power	---		Power-50%		---	P-value	0.6552		
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power	---		Power-50%		---	P-value	0.5000		
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	2	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
50981C/50981	2	5	0.000	0.000	3	0.000	0.000	o	1.0000	5	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6552	Power	---		Power-50%		---	P-value	0.6552		
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power	---		Power-50%		---	P-value	0.5000		
C15.1C/C15.1	3	2	0.000	0.000	5	16.000	8.124	-	0.0778	2	0.000	0.000	5	9.538	6.151	-	0.0920		
50981C/50221	3	3	1.667	1.667	0	--	--	---	---	3	2.848	2.848	0	--	--	---	---		
50981C/50981	3	3	1.667	1.667	2	0.000	0.000	+	0.4226	3	2.848	2.848	2	0.000	0.000	+	0.4226		
Habitat Means			1.111	1.111		8.000	4.062	-			1.899	1.899		4.769	3.076	-			
Fisher's	Power		0.006		Power-50%		---	P-value	0.1376	Power	0.000		Power-50%		---	P-value	0.1566		
Stouffer's	Power		0.000		Power-50%		---	P-value	0.2181	Power	0.000		Power-50%		---	P-value	0.2661		

z Only one site pair.

Table D-85, Page 16. December 21, 1994

Table D-85. Invertebrate Abundance and Biomass. Cook Inlet/Kenai. Estuarine. July 1990. (Continued.)

Nucella lima - abundance (#/m^2)										Nucella lima - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	2	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
50981C/50981	2	5	0.000	0.000	3	0.000	0.000	o	1.0000	5	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	3	2	0.000	0.000	5	14.000	8.718	-	0.1782	2	0.000	0.000	5	9.516	6.160	-	0.1780		
50981C/50221	3	3	1.667	1.667	0	--	--	---	---	3	2.848	2.848	0	--	--	---	---		
50981C/50981	3	3	1.667	1.667	2	0.000	0.000	-	0.4226	3	2.848	2.848	2	0.000	0.000	-	0.4226		
Habitat Means			1.111	1.111		7.000	4.359	-			1.899	1.899		4.758	3.080	-			
Fisher's	Power		0.198		Power-50%	---	P-value	0.2569		Power	0.104		Power-50%	---	P-value	0.2567			
Stouffer's	Power		0.044		Power-50%	---	P-value	0.3500		Power	0.015		Power-50%	---	P-value	0.3499			

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

Table D-85, Page 17, December 21, 1994

Nucella lamellosa - abundance (#/m^2)										Nucella lamellosa - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	2	5	0.000	0.000	4	0.000	0.000	o	1.0000	5	0.000	0.000	4	0.000	0.000	o	1.0000		
50981C/50981	2	5	0.000	0.000	3	0.000	0.000	o	1.0000	5	0.000	0.000	3	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	3	2	0.000	0.000	5	0.000	0.000	o	1.0000	2	0.000	0.000	5	0.000	0.000	o	1.0000		
50981C/50221	3	3	0.000	0.000	0	--	--	---	---	3	0.000	0.000	0	--	--	---	---		
50981C/50981	3	3	0.000	0.000	2	0.000	0.000	o	1.0000	3	0.000	0.000	2	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			

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

Table D-85, Page 18, December 21, 1994

Table D-85. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, July 1990. (Continued.)

Site Pair	MVD	Amphipoda - abundance (#/m ²)								Amphipoda - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	52.217	36.119	6	593.333	471.979	-	0.1035	6	0.047	0.035	6	1.577	1.043	-	0.0862
50981C/50221	1	6	85.883	51.156	6	691.750	445.818	-	0.4894	6	0.074	0.047	6	1.214	0.757	-	0.1486
50981C/50981	1	6	85.883	51.156	3	13.333	13.333	+	0.3714	6	0.074	0.047	3	0.190	0.190	-	0.9351
Habitat Means			74.661	46.144		432.805	310.377	-			0.065	0.043		0.994	0.663	-	
Fisher's		Power	0.031		Power-50%	0.513		P-value	0.1654	Power	---		Power-50%	---		P-value	0.0429
Stouffer's		Power	0.028		Power-50%	0.697		P-value	0.2052	Power	---		Power-50%	---		P-value	0.0306
C15.1C/C15.1	2	6	1256.667	703.985	6	4603.333	2141.634	-	0.0572	6	1.727	1.093	6	3.463	1.153	-	0.2695
50981C/50221	2	5	194.660	84.787	4	2901.425	1790.276	-	0.1767	5	0.167	0.114	4	4.848	2.722	-	0.0457
50981C/50981	2	5	194.660	84.787	3	624.433	507.665	-	0.8407	5	0.167	0.114	3	4.191	4.090	-	0.4829
Habitat Means			548.662	291.186		2709.730	1479.858	-			0.687	0.440		4.167	2.655	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0332	Power	---		Power-50%	---		P-value	0.0254
Stouffer's		Power	---		Power-50%	0.123		P-value	0.0231	Power	---		Power-50%	---		P-value	0.0140
C15.1C/C15.1	3	2	15.000	15.000	5	1960.000	843.048	-	0.0176	2	0.075	0.075	5	2.456	1.060	-	0.0239
50981C/50221	3	3	450.000	234.379	0	--	--	----		3	1.413	1.261	0	--	--	----	
50981C/50981	3	3	450.000	234.379	2	540.000	540.000	-	0.6400	3	1.413	1.261	2	1.338	1.338	+	0.8506
Habitat Means			305.000	161.253		1250.000	691.524	-			0.967	0.866		1.897	1.199	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0194	Power	---		Power-50%	---		P-value	0.0411
Stouffer's		Power	---		Power-50%	0.023		P-value	0.0223	Power	---		Power-50%	---		P-value	0.0715

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

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Site Pair	MVD	Isopoda - abundance (#/m ²)								Isopoda - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	40.550	34.704	6	383.333	233.419	-	0.1078	6	0.156	0.150	6	14.050	12.810	-	0.0479
50981C/50221	1	6	45.250	43.281	6	5.933	5.933	+	0.5855	6	0.305	0.305	6	0.101	0.101	+	0.8944
50981C/50981	1	6	45.250	43.281	3	43.333	43.333	+	0.8555	6	0.305	0.305	3	1.097	1.097	-	0.5542
Habitat Means			43.683	40.422		144.200	94.228	+			0.255	0.253		5.083	4.669	-	
Fisher's		Power	0.021		Power-50%	0.118		P-value	0.6407 y	Power	---		Power-50%	---		P-value	0.0819
Stouffer's		Power	0.051		Power-50%	0.229		P-value	0.6947	Power	---		Power-50%	---		P-value	0.0797
C15.1C/C15.1	2	6	139.433	39.851	6	603.333	278.899	-	0.1941	6	1.496	0.705	6	3.952	2.173	-	0.3533
50981C/50221	2	5	90.000	33.784	4	302.000	210.610	-	0.5160	5	0.867	0.239	4	7.576	4.954	-	0.0360
50981C/50981	2	5	90.000	33.784	3	83.333	83.333	+	0.0790	5	0.867	0.239	3	1.307	1.307	-	0.8944
Habitat Means			106.478	35.806		329.555	190.947	-			1.077	0.394		4.278	2.811	-	
Fisher's		Power	0.005		Power-50%	0.000		P-value	0.2808x	Power	---		Power-50%	---		P-value	0.0413
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.4561	Power	---		Power-50%	---		P-value	0.0341
C15.1C/C15.1	3	2	0.000	0.000	5	430.000	106.536	-	0.0001	2	0.000	0.000	5	5.806	1.677	-	0.0001
50981C/50221	3	3	201.667	104.177	0	--	--	----		3	3.478	3.176	0	--	--	----	
50981C/50981	3	3	201.667	104.177	2	142.500	142.500	+	0.3831	3	3.478	3.176	2	4.750	4.750	-	0.5850
Habitat Means			134.445	69.451		286.250	124.518	-			2.319	2.117		5.278	3.214	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0004	Power	---		Power-50%	---		P-value	0.0002
Stouffer's		Power	---		Power-50%	0.000		P-value	0.0164	Power	---		Power-50%	---		P-value	0.0009

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

Table D-85, Page 20, December 21, 1994

Table D-85. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, July 1990. (Continued.)

Site Pair	MVD	Errant polychaetes - abundance (#/m ²)								Errant polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.547	0.547	-	0.3632
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	1	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.182	0.182	-	
Fisher's		Power	---		Power-50%	---		P-value	0.4028	Power	---		Power-50%	---		P-value	0.4028
Stouffer's		Power	---		Power-50%	---		P-value	0.2998	Power	---		Power-50%	---		P-value	0.2998
C15.1C/C15.1	2	6	3.333	3.333	6	13.333	4.944	-	0.1010	6	0.945	0.945	6	1.157	1.073	-	0.8275
50981C/50221	2	5	189.320	94.066	4	17.500	10.308	+	0.2396	5	0.102	0.062	4	0.442	0.429	-	0.7630
50981C/50981	2	5	189.320	94.066	3	0.000	0.000	-	0.0299	5	0.102	0.062	3	0.000	0.000	+	1.0000
Habitat Means			127.324	63.822		10.278	5.084	-			0.383	0.356		0.533	0.501	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0471	Power	0.001		Power-50%	0.014		P-value	0.5338
Stouffer's		Power	0.168		Power-50%	0.171		P-value	0.1621	Power	0.000		Power-50%	0.112		P-value	0.3823
C15.1C/C15.1	3	2	0.000	0.000	5	52.000	14.629	-	0.0006	2	0.000	0.000	5	2.704	0.630	-	0.0001
50981C/50221	3	3	30.000	15.275	0	---	---	---	---	3	0.034	0.020	0	---	---	---	---
50981C/50981	3	3	30.000	15.275	2	10.000	10.000	+	0.6433	3	0.034	0.020	2	3.090	3.090	-	0.6575
Habitat Means			20.000	10.183		31.000	12.315	-			0.023	0.013		2.897	1.860	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0019	Power	---		Power-50%	---		P-value	0.0002
Stouffer's		Power	---		Power-50%	0.038		P-value	0.0179	Power	---		Power-50%	---		P-value	0.0011

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

Table D-85, Page 21, December 21, 1994

Site Pair	MVD	Sedentary polychaetes - abundance (#/m ²)								Sedentary polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	1	6	0.000	0.000	3	0.000	0.000	o	1.0000	6	0.000	0.000	3	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.6552
Stouffer's		Power	---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.5000
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50221	2	5	697.980	464.079	4	7.500	7.500	+	0.3695	5	0.939	0.684	4	0.005	0.005	-	0.3404
50981C/50981	2	5	697.980	464.079	3	0.000	0.000	-	0.1784	5	0.939	0.684	3	0.000	0.000	-	0.1793
Habitat Means			465.320	309.386		2.500	2.500	-			0.626	0.456		0.002	0.002	-	
Fisher's		Power	0.613		Power-50%	0.209		P-value	0.1427	Power	0.439		Power-50%	0.103		P-value	0.1355
Stouffer's		Power	---		Power-50%	0.239		P-value	0.0976	Power	---		Power-50%	---		P-value	0.0924
C15.1C/C15.1	3	2	0.000	0.000	5	4.000	2.449	-	0.1778	2	0.000	0.000	5	0.002	0.002	-	0.2952
50981C/50221	3	3	13.333	8.819	0	---	---	---	---	3	0.157	0.157	0	---	---	---	---
50981C/50981	3	3	13.333	8.819	2	0.000	0.000	+	0.1961	3	0.157	0.157	2	0.000	0.000	+	0.3860
Habitat Means			8.889	5.879		2.000	1.225	-			0.105	0.105		0.001	0.001	-	
Fisher's		Power	0.083		Power-50%	0.008		P-value	0.2825 y	Power	0.000		Power-50%	0.000		P-value	0.3725 y
Stouffer's		Power	0.019		Power-50%	0.004		P-value	0.4845	Power	0.000		Power-50%	0.000		P-value	0.4493

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

Table D-85, Page 22, December 21, 1994

Table D-85. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, July 1990. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	1746.117	854.552	6	2558.333	1780.053	-	0.5666	6	1.909	0.684	6	2.188	1.476	-	0.6230		
50981C/50221	1	6	1273.550	450.107	6	4448.316	963.422	-	0.0316	6	0.385	0.150	6	2.181	0.469	-	0.0696		
50981C/50981	1	6	1273.550	450.107	3	1470.000	546.474	-	0.9096	6	0.385	0.150	3	0.770	0.286	-	0.3825		
Habitat Means			1431.072	584.922		2825.550	1096.650	-			0.893	0.328		1.713	0.744	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0537	Power	---		Power-50%	---		P-value	0.0545		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0508	Power	---		Power-50%	---		P-value	0.0332		
C15.1C/C15.1	2	6	4340.233	2294.228	6	6956.667	2775.394	-	0.3474	6	2.282	1.773	6	3.950	1.918	-	0.3597		
50981C/50221	2	5	2334.000	1201.682	4	3596.325	1525.222	-	0.6941	5	0.916	0.390	4	1.010	0.454	-	0.9642		
50981C/50981	2	5	2334.000	1201.682	3	4293.333	2541.000	-	0.5756	5	0.916	0.390	3	1.781	1.046	-	0.7049		
Habitat Means			3002.744	1565.864		4948.775	2280.539	-			1.371	0.851		2.247	1.139	-			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.2303	Power	0.000		Power-50%	0.000		P-value	0.3231		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.1374	Power	0.000		Power-50%	0.000		P-value	0.2198		
C15.1C/C15.1	3	2	2245.000	2235.000	5	3154.000	1167.915	-	0.2252	2	1.065	0.375	5	1.046	0.268	-	0.8135		
50981C/50221	3	3	23.333	23.333	0	---	---	-	----	3	0.003	0.003	0	---	---	-	----		
50981C/50981	3	3	23.333	23.333	2	2697.500	17.500	-	0.0449	3	0.003	0.003	2	1.643	0.518	-	0.0085		
Habitat Means			763.889	760.555		2925.750	592.708	-			0.357	0.127		1.345	0.393	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0176	Power	---		Power-50%	---		P-value	0.0176		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0114	Power	---		Power-50%	---		P-value	0.0451		

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

Table D-85. Page 23. December 21, 1994

Site Pair	MVD	Total Invertebrates - abundance (#/m ²)								Total Invertebrates - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	2356.100	1145.907	6	8508.333	2455.016	-	0.0225	6	10.894	5.019	6	604.604	180.082	-	0.0280
50981C/50221	1	6	4761.500	1999.521	6	5846.450	1428.122	-	0.6729	6	438.085	244.635	6	221.528	155.800	-	0.4043
50981C/50981	1	6	4761.500	1999.521	3	1556.667	616.829	+	0.3125	6	438.085	244.635	3	6.164	5.602	-	0.1790
Habitat Means			3959.700	1714.983		5303.817	1499.989	-			295.688	164.763		277.432	113.828	-	
Fisher's	Power		---		Power-50%	---		P-value	0.0743	Power	0.000		Power-50%	0.000		P-value	0.2343x
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.1640	Power	0.000		Power-50%	0.000		P-value	0.5046
C15.1C/C15.1	2	6	7324.017	3093.551	6	16743.334	5450.588	-	0.0828	6	75.205	20.325	6	1462.501	536.830	-	0.0001
50981C/50221	2	5	10745.920	3425.275	4	9865.875	3811.590	+	0.8853	5	1166.124	203.498	4	555.510	251.239	+	0.0580
50981C/50981	2	5	10745.920	3425.275	3	5201.133	2568.141	+	0.4074	5	1166.124	203.498	3	144.355	99.670	+	0.0022
Habitat Means			9605.286	3314.700		10603.447	3943.440	-			802.484	142.440		720.789	295.913	+	
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.5571xy	Power	---		Power-50%	---		P-value	0.0021x
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.6702	Power	0.000		Power-50%	0.000		P-value	0.2688
C15.1C/C15.1	3	2	3233.350	2573.350	5	9660.000	2954.425	-	0.1729	2	295.821	292.020	5	895.651	421.810	-	0.3255
50981C/50221	3	3	5438.333	2548.834	0	--	--	-	----	3	1372.563	464.318	0	--	--	-	----
50981C/50981	3	3	5438.333	2548.834	2	5010.000	1910.000	+	0.9348	3	1372.563	464.318	2	723.390	673.095	+	0.3590
Habitat Means			4703.339	2557.006		7335.000	2432.213	-			1013.649	406.885		809.521	547.453	-	
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.1878	Power	0.000		Power-50%	0.000		P-value	0.4024y
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.1824	Power	0.000		Power-50%	0.000		P-value	0.4814

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-85. Page 24. December 21, 1994

Table D-86. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	3.333	2.108	6	58.333	36.735	-	0.2523	6	2.305	1.871	6	13.038	7.287	-	0.0934		
50981C/50221	1	6	8.333	8.333	6	0.000	0.000	-	0.3632	6	4.557	4.557	6	0.000	0.000	+	0.4674		
50981C/50981	1	6	8.333	8.333	5	2.000	2.000	-	0.8397	6	4.557	4.557	5	4.400	4.400	+	0.9809		
Habitat Means			6.666	6.258		20.111	12.912	+			3.806	3.662		5.813	3.896	+			
Fisher's			Power	0.668		Power-50%	0.948	P-value	0.4915 y		Power	0.272		Power-50%	0.322	P-value	0.6190 w		
Stouffer's			Power	0.323		Power-50%	0.960	P-value	0.5078		Power	0.153		Power-50%	0.406	P-value	0.7039		
C15.1C/C15.1	2	6	19.167	10.833	6	67.217	32.541	-	0.2478	6	18.477	10.478	6	11.657	4.899	+	0.6007		
50981C/50221	2	6	7.500	4.031	6	3.883	2.493	+	0.5769	6	3.270	1.903	6	0.882	0.601	+	0.5189		
50981C/50981	2	6	7.500	4.031	6	0.000	0.000	+	0.0863	6	3.270	1.903	6	0.000	0.000	-	0.0765		
Habitat Means			11.389	6.298		23.700	11.678	+			8.339	4.761		4.180	1.833	-			
Fisher's			Power	0.122		Power-50%	0.486	P-value	0.1715 y		Power	---		Power-50%	---	P-value	0.0707		
Stouffer's			Power	0.148		Power-50%	0.630	P-value	0.2594		Power	---		Power-50%	---	P-value	0.0448		
C15.1C/C15.1	3	0	--	--	2	17.500	12.500	----		0	--	--	2	3.265	1.275	----			
50981C/50221	3	3	16.667	7.265	2	5.000	5.000	-	0.2693	3	4.472	1.419	2	3.318	3.318	+	0.3293		
50981C/50981	3	3	16.667	7.265	5	13.980	9.276	-	0.4251	3	4.472	1.419	5	3.880	2.180	+	0.2940		
Habitat Means			16.667	7.265		12.160	8.925	+			4.472	1.419		4.154	2.258	+			
Fisher's			Power	0.000		Power-50%	0.000	P-value	0.1303		Power	0.000		Power-50%	0.000	P-value	0.1143		
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0893		Power	---		Power-50%	---	P-value	0.0761		

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

Table D-86, Page 1, December 21, 1994

Lottia pelta - abundance (#/m ²)										Lottia pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	-	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.193	0.193	-	0.3632		
50981C/50221	-	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	-	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.064	0.064	-			
Fisher's			Power	---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028		
Stouffer's			Power	---		Power-50%	---	P-value	0.2998		Power	---		Power-50%	---	P-value	0.2998		
C15.1C/C15.1	2	6	8.333	4.773	6	36.667	29.401	-	0.9231	6	13.698	8.108	6	4.923	3.478	+	0.5771		
50981C/50221	2	6	0.833	0.833	6	0.833	0.833	o	1.0000	6	1.983	1.983	6	0.152	0.152	-	0.8295		
50981C/50981	2	6	0.833	0.833	6	0.000	0.000	+	0.3632	6	1.983	1.983	6	0.000	0.000	+	0.3632		
Habitat Means			3.333	2.146		12.500	10.078	+			5.888	4.025		1.692	1.210	-			
Fisher's			Power	0.181		Power-50%	0.661	P-value	0.4191 y		Power	0.829		Power-50%	0.250	P-value	0.2643		
Stouffer's			Power	0.027		Power-50%	0.743	P-value	0.3194		Power	0.716		Power-50%	0.334	P-value	0.1658		
C15.1C/C15.1	3	0	--	--	2	2.500	2.500	----		0	--	--	2	1.995	1.995	----			
50981C/50221	3	3	10.000	5.000	2	2.500	2.500	+	0.2234	3	2.525	1.474	2	2.973	2.972	-	0.4549		
50981C/50981	3	3	10.000	5.000	5	6.660	5.870	+	0.2432	3	2.525	1.474	5	3.475	2.128	-	0.2736		
Habitat Means			10.000	5.000		3.887	3.623	-			2.525	1.474		2.814	2.365	-			
Fisher's			Power	---		Power-50%	---	P-value	0.0720		Power	0.164		Power-50%	0.000	P-value	0.1391		
Stouffer's			Power	---		Power-50%	0.000	P-value	0.0459		Power	---		Power-50%	---	P-value	0.0964		

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

Table D-86, Page 2, December 21, 1994

Table D-86. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, May 1991. (Continued.)

Site Pair	MVD	Tectura persona - abundance (#/m ²)								Tectura persona - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	1.667	1.667	6	21.667	14.240	-	0.3306	6	1.910	1.910	6	5.078	3.496	-	0.4849
50981C/50221	1	6	5.000	5.000	6	0.000	0.000	-	0.3632	6	3.833	3.833	6	0.000	0.000	-	0.3990
50981C/50981	1	6	5.000	5.000	5	2.000	2.000	-	0.9064	6	3.833	3.833	5	4.400	4.400	-	0.9048
Habitat Means			3.889	3.889		7.889	5.413	+			3.192	3.192		3.159	2.632	-	
Fisher's	Power		0.950		Power-50%	---	P-value	0.4990	y	Power	0.008		Power-50%	---	P-value	0.5612	y
Stouffer's	Power		0.509		Power-50%	---	P-value	0.4876		Power	0.000		Power-50%	---	P-value	0.5059	
C15.1C/C15.1	2	6	5.833	3.270	6	1.667	1.667	+	0.2701	6	2.998	1.792	6	0.125	0.125	+	0.1923
50981C/50221	2	6	0.000	0.000	6	2.217	2.217	-	0.3632	6	0.000	0.000	6	0.585	0.585	-	0.3632
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			1.944	1.090		1.295	1.295	-			0.999	0.597		0.237	0.237	-	
Fisher's	Power		0.000		Power-50%	0.034	P-value	0.4470		Power	0.001		Power-50%	0.005	P-value	0.3726	
Stouffer's	Power		0.000		Power-50%	0.004	P-value	0.4555		Power	0.000		Power-50%	0.000	P-value	0.4098	
C15.1C/C15.1	3	0	--	--	2	0.000	0.000	---		0	--	--	2	0.000	0.000	---	
50981C/50221	3	3	0.000	0.000	2	2.500	2.500	-	0.5000	3	0.000	0.000	2	0.345	0.345	-	0.5000
50981C/50981	3	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.833	0.833	-			0.000	0.000		0.115	0.115	-	
Fisher's	Power		---		Power-50%	---	P-value	0.3849		Power	---		Power-50%	---	P-value	0.3849	
Stouffer's	Power		---		Power-50%	---	P-value	0.3168		Power	---		Power-50%	---	P-value	0.3168	

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

Table D-86, Page 3. December 21, 1994

Site Pair	MVD	Tectura scutum - abundance (#/m ²)								Tectura scutum - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	0.000	0.000	6	5.000	3.416	-	0.1784	6	0.000	0.000	6	2.508	1.619	-	0.1748
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		1.667	1.139	-			0.000	0.000		0.836	0.540	-	
Fisher's	Power		0.210		Power-50%	---	P-value	0.2684		Power	0.351		Power-50%	---	P-value	0.2651	
Stouffer's	Power		0.058		Power-50%	---	P-value	0.2186		Power	0.096		Power-50%	---	P-value	0.2166	
C15.1C/C15.1	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.867	0.867	-	0.3632
50981C/50221	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.556	0.556	-			0.000	0.000		0.289	0.289	-	
Fisher's	Power		---		Power-50%	---	P-value	0.4028		Power	---		Power-50%	---	P-value	0.4028	
Stouffer's	Power		---		Power-50%	---	P-value	0.2998		Power	---		Power-50%	---	P-value	0.2998	
C15.1C/C15.1	3	0	--	--	2	0.000	0.000	---		0	--	--	2	0.000	0.000	---	
50981C/50221	3	3	0.000	0.000	2	0.000	0.000	o	1.0000	3	0.000	0.000	2	0.000	0.000	o	1.0000
50981C/50981	3	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	

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

Table D-86, Page 4. December 21, 1994

Table D-86. Invertebrate Abundance and Biomass. Cook Inlet/Kensai, Estuarine, May 1991. (Continued.)

Balanomorphs - abundance (#/m ²)										Balanomorphs - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	226.667	120.932	6	3889.667	2267.785	-	0.0346	6	11.315	5.469	6	212.618	123.109	-	0.0684		
50981C/50221	1	6	1863.333	1127.279	6	386.400	201.605	-	0.3788	6	107.068	84.756	6	55.214	36.208	+	0.6294		
50981C/50981	1	6	1863.333	1127.279	5	654.000	517.219	-	0.4908	6	107.068	84.756	5	68.072	53.726	+	0.7291		
Habitat Means			1317.778	791.830		1643.356	995.536	+			75.150	58.327		111.968	71.014	+			
Fisher's	Power		0.064		Power-50%	0.112	P-value	0.4042 _{xy}		Power	0.032		Power-50%	0.091	P-value	0.6227 _{xy}			
Stouffer's	Power		0.155		Power-50%	0.258	P-value	0.6234		Power	0.097		Power-50%	0.217	P-value	0.7171			
C15.1C/C15.1	2	6	940.583	403.686	6	3201.116	1601.342	-	0.0883	6	47.507	26.641	6	209.641	132.170	-	0.1039		
50981C/50221	2	6	2180.817	547.657	6	1720.283	723.598	+	0.3751	6	114.229	24.685	6	148.661	68.386	-	0.4313		
50981C/50981	2	6	2180.817	547.657	6	599.433	189.863	-	0.0566	6	114.229	24.685	6	50.771	17.785	-	0.3239		
Habitat Means			1767.406	499.667		1840.277	838.268	-			91.988	25.337		136.358	72.780	-			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.1027 _{xy}		Power	0.000		Power-50%	0.000	P-value	0.1555			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.2648		Power	0.000		Power-50%	0.000	P-value	0.2050			
C15.1C/C15.1	3	0	--	--	2	1405.000	955.000	----		0	--	--	2	62.745	48.565	----			
50981C/50221	3	3	1528.333	1008.160	2	1015.800	535.800	+	0.8964	3	87.543	57.202	2	156.561	83.781	-	0.4729		
50981C/50981	3	3	1528.333	1008.160	5	1877.020	416.865	-	0.3394	3	87.543	57.202	5	225.822	65.886	-	0.1434		
Habitat Means			1528.333	1008.160		1432.607	635.888	-			87.543	57.202		148.376	66.077	-			
Fisher's	Power		0.000		Power-50%	0.000	P-value	0.3154 _y		Power	---		Power-50%	---	P-value	0.0861			
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.2797		Power	---		Power-50%	---	P-value	0.0615			

Only one site pair.

Table D-86, Page 5, December 21, 1994

Cthamalus dalli - abundance (#/m ²)										Cthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	706.667	434.378	-	0.0291	6	0.000	0.000	6	7.742	4.557	-	0.0281		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		235.556	144.793	-			0.000	0.000		2.581	1.519	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0814		Power	---		Power-50%	---	P-value	0.0795			
Stouffer's	Power		0.000		Power-50%	---	P-value	0.1038		Power	0.000		Power-50%	---	P-value	0.1024			
C15.1C/C15.1	2	6	0.000	0.000	6	380.000	233.109	-	0.0865	6	0.000	0.000	6	3.242	2.021	-	0.0848		
50981C/50221	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.022	0.022	-	0.3632		
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		127.222	78.259	-			0.000	0.000		1.088	0.681	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0859		Power	---		Power-50%	---	P-value	0.0848			
Stouffer's	Power		---		Power-50%	---	P-value	0.0649		Power	---		Power-50%	---	P-value	0.0642			
C15.1C/C15.1	3	0	--	--	2	235.000	195.000	----		0	--	--	2	0.998	0.857	----			
50981C/50221	3	3	0.000	0.000	2	0.000	0.000	o	1.0000	3	0.000	0.000	2	0.000	0.000	o	1.0000		
50981C/50981	3	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		78.333	65.000	o			0.000	0.000		0.333	0.286	o			
Fisher's	Power		0.000		Power-50%	---	P-value	0.5966 _y		Power	0.010		Power-50%	---	P-value	0.5966 _y			
Stouffer's	Power		0.000		Power-50%	---	P-value	0.5000		Power	0.010		Power-50%	---	P-value	0.5000			

z Only one site pair.

Table D-86, Page 5. December 21, 1994

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	706.667	434.378	-	0.0291	6	0.000	0.000	6	7.742	4.557	-	0.0281		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		235.556	144.793	-			0.000	0.000		2.581	1.519	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0814		Power	---		Power-50%	---	P-value	0.0795			
Stouffer's		Power	0.000		Power-50%	---	P-value	0.1038		Power	0.000		Power-50%	---	P-value	0.1024			
C15.1C/C15.1	2	6	0.000	0.000	6	380.000	233.109	-	0.0865	6	0.000	0.000	6	3.242	2.021	-	0.0848		
50981C/50221	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.022	0.022	-	0.3632		
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		127.222	78.259	-			0.000	0.000		1.088	0.681	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0859		Power	---		Power-50%	---	P-value	0.0848			
Stouffer's		Power	---		Power-50%	---	P-value	0.0649		Power	---		Power-50%	---	P-value	0.0642			
C15.1C/C15.1	3	0	--	--	2	235.000	195.000	----		0	--	--	2	0.998	0.857	----			
50981C/50221	3	3	0.000	0.000	2	0.000	0.000	o	1.0000	3	0.000	0.000	2	0.000	0.000	o	1.0000		
50981C/50981	3	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		78.333	65.000	o			0.000	0.000		0.333	0.286	o			
Fisher's		Power	0.000		Power-50%	---	P-value	0.5966 y		Power	0.000		Power-50%	---	P-value	0.5966 y			
Stouffer's		Power	0.000		Power-50%	---	P-value	0.5000		Power	0.000		Power-50%	---	P-value	0.5000			

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-86, Page 6. December 21, 1994

Table D-86. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, May 1991. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	6.667	4.944	6	409.000	175.373	-	0.0002	6	0.525	0.479	6	73.497	45.007	-	0.0006		
50981C/50221	1	6	18.333	12.758	6	115.567	51.517	-	0.0246	6	2.260	1.557	6	18.542	9.496	-	0.0356		
50981C/50981	1	6	18.333	12.758	5	70.000	49.800	-	0.4504	6	2.260	1.557	5	11.688	9.080	-	0.7588		
Habitat Means			14.444	10.153		198.189	92.230	-			1.682	1.198		34.576	21.194	-			
Fisher's	Power		---			Power-50%	---	P-value	0.0000	Power	---			Power-50%	---	P-value	0.0002		
Stouffer's	Power		---			Power-50%	0.532	P-value	0.0001	Power	---			Power-50%	---	P-value	0.0004		
C15.1C/C15.1	2	6	14.167	4.549	6	315.000	129.788	-	0.0035	6	0.951	0.600	6	46.957	26.977	-	0.0064		
50981C/50221	2	6	44.167	21.151	6	313.617	112.580	-	0.0209	6	3.848	1.831	6	25.633	10.937	-	0.0864		
50981C/50981	2	6	44.167	21.151	6	131.117	56.166	-	0.2374	6	3.848	1.831	6	6.064	2.839	-	0.3614		
Habitat Means			34.167	15.617		253.245	99.511	-			2.882	1.421		26.218	13.584	-			
Fisher's	Power		---			Power-50%	---	P-value	0.0002	Power	---			Power-50%	---	P-value	0.0017		
Stouffer's	Power		---			Power-50%	0.167	P-value	0.0001	Power	---			Power-50%	---	P-value	0.0010		
C15.1C/C15.1	3	0	--	--	2	165.850	155.850	----		0	--	--	2	6.670	4.240	----			
50981C/50221	3	3	183.333	65.596	2	294.150	174.150	-	0.6142	3	7.910	6.025	2	25.620	10.420	-	0.2086		
50981C/50981	3	3	183.333	65.596	5	440.680	146.191	-	0.3372	3	7.910	6.025	5	31.391	10.095	-	0.1133		
Habitat Means			183.333	65.596		300.227	158.730	-			7.910	6.025		21.227	8.252	-			
Fisher's	Power		0.000			Power-50%	0.000	P-value	0.2051	Power	---			Power-50%	---	P-value	0.0362		
Stouffer's	Power		0.000			Power-50%	0.000	P-value	0.1504	Power	---			Power-50%	---	P-value	0.0223		

* All lower case site pair numbers + 0.100 in opposite direction of overall tests.

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

z Only one site pair.

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	201.667	112.084	6	1592.333	641.403	-	0.0223	6	10.537	5.334	6	106.390	51.771	-	0.2376		
50981C/50221	1	6	1651.667	1011.980	6	211.950	143.830	+	0.3063	6	103.335	82.198	6	35.275	27.873	+	0.3988		
50981C/50981	1	6	1651.667	1011.980	5	564.000	457.358	+	0.2577	6	103.335	82.198	5	56.150	44.526	+	0.5757		
Habitat Means			1168.334	712.015		789.428	414.197	+			72.402	56.577		65.938	41.390	+			
Fisher's	Power		0.059			Power-50%	0.098	P-value	0.2475*	Power	0.025			Power-50%	0.086	P-value	0.4267		
Stouffer's	Power		0.134			Power-50%	0.230	P-value	0.5301	Power	0.067			Power-50%	0.224	P-value	0.4491		
C15.1C/C15.1	2	6	645.833	284.260	6	2304.450	1210.575	-	0.0873	6	44.767	25.406	6	148.203	94.710	-	0.1412		
50981C/50221	2	6	1949.167	541.486	6	1189.733	696.999	-	0.4248	6	108.901	24.427	6	116.055	54.483	-	0.9175		
50981C/50981	2	6	1949.167	541.486	6	391.100	154.105	+	0.1073	6	108.901	24.427	6	40.750	16.664	+	0.3274		
Habitat Means			1514.722	455.744		1295.094	687.226	+			87.523	24.753		101.669	55.286	+			
Fisher's	Power		0.000			Power-50%	0.000	P-value	0.1714*	Power	0.000			Power-50%	0.000	P-value	0.3012		
Stouffer's	Power		0.000			Power-50%	0.000	P-value	0.3434	Power	0.000			Power-50%	0.000	P-value	0.3655		
C15.1C/C15.1	3	0	--	--	2	938.350	598.350	----		0	--	--	2	53.645	42.295	----			
50981C/50221	3	3	1116.667	934.801	2	446.650	246.650	+	0.8350	3	74.993	57.540	2	115.268	70.488	+	0.4979		
50981C/50981	3	3	1116.667	934.801	5	1184.340	280.494	-	0.2654	3	74.993	57.540	5	177.794	60.175	-	0.1595		
Habitat Means			1116.667	934.801		856.447	375.165	-			74.993	57.540		115.569	57.653	-			
Fisher's	Power		0.000			Power-50%	0.000	P-value	0.2752 y	Power	---			Power-50%	---	P-value	0.0977		
Stouffer's	Power		0.000			Power-50%	0.000	P-value	0.2609	Power	---			Power-50%	---	P-value	0.0702		

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

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

Table D-86, Page 8, December 21, 1994

Table D-86. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, May 1991. (Continued.)

Site Pair	MVD	Lacuna spp. - abundance (#/m ²)								Lacuna spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.025	0.025	6	0.003	0.003	-	0.7437
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.556	0.556		0.556	0.556	o			0.008	0.008		0.001	0.001	+	
Fisher's		Power	---		Power-50%	---		P-value	0.6552	Power	---		Power-50%	---		P-value	0.5761
Stouffer's		Power	---		Power-50%	---		P-value	0.5000	Power	---		Power-50%	---		P-value	0.4252
C15.1C/C15.1	2	6	0.000	0.000	6	6.667	6.667	-	0.3632	6	0.000	0.000	6	0.087	0.087	-	0.3632
50981C/50221	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		2.222	2.222	-			0.000	0.000		0.029	0.029	-	
Fisher's		Power	---		Power-50%	---		P-value	0.4028	Power	---		Power-50%	---		P-value	0.4028
Stouffer's		Power	---		Power-50%	---		P-value	0.2998	Power	---		Power-50%	---		P-value	0.2998
C15.1C/C15.1	3	0	--	--	2	15.000	5.000	----		0	--	--	2	0.105	0.035	----	
50981C/50221	3	3	5.000	2.887	2	20.000	20.000	-	0.8004	3	0.090	0.078	2	0.040	0.040	+	0.8013
50981C/50981	3	3	5.000	2.887	5	6.660	2.111	-	0.6970	3	0.090	0.078	5	0.078	0.066	+	0.8315
Habitat Means			5.000	2.887		13.887	9.037	-			0.090	0.078		0.074	0.047	+	
Fisher's		Power	0.129		Power-50%	0.016		P-value	0.4142	Power	0.016		Power-50%	0.003		P-value	0.4651
Stouffer's		Power	0.098		Power-50%	0.003		P-value	0.3251	Power	0.026		Power-50%	0.001		P-value	0.3715

1. Only one site pair.
2. Only one site pair.

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Site Pair	MVD	Littorina spp. - abundance (#/m ²)								Littorina spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	21.667	16.003	6	1170.333	730.225	-	0.0118	6	4.808	2.833	6	129.718	101.360	-	0.1068
50981C/50221	1	6	208.333	111.278	6	11.367	10.399	-	0.0399	6	17.820	11.131	6	0.765	0.710	-	0.0768
50981C/50981	1	6	208.333	111.278	5	30.000	18.974	+	0.2282	6	17.820	11.131	5	4.930	3.560	+	0.4717
Habitat Means			146.111	79.520		403.900	253.199	-			13.483	8.365		45.138	35.210	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0580xy	Power	0.003		Power-50%	0.047		P-value	0.1465 y
Stouffer's		Power	0.025		Power-50%	0.205		P-value	0.3342	Power	0.015		Power-50%	0.168		P-value	0.3064 y
C15.1C/C15.1	2	6	317.483	144.126	6	1560.017	249.191	-	0.0001	6	19.286	8.574	6	68.827	25.818	-	0.1098
50981C/50221	2	6	850.283	235.139	6	290.567	149.681	+	0.0462	6	85.344	30.836	6	10.151	5.629	+	0.0180
50981C/50981	2	6	850.283	235.139	6	138.333	38.285	+	0.0129	6	85.344	30.836	6	10.695	6.084	+	0.0188
Habitat Means			672.683	204.801		662.972	145.719	+			63.325	23.415		29.891	12.510	+	
Fisher's		Power	---		Power-50%	---		P-value	0.0072x	Power	---		Power-50%	---		P-value	0.0044
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.3666	Power	---		Power-50%	---		P-value	0.0360
C15.1C/C15.1	3	0	--	--	2	2607.500	1477.500	----		0	--	--	2	69.196	17.004	----	
50981C/50221	3	3	378.867	143.815	2	545.850	445.850	-	0.9514	3	34.598	15.659	2	20.340	12.850	+	0.7511
50981C/50981	3	3	378.867	143.815	5	396.320	189.747	-	0.6735	3	34.598	15.659	5	13.437	6.382	+	0.3152
Habitat Means			378.867	143.815		1183.223	704.366	-			34.598	15.659		34.324	12.079	+	
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.4536	Power	0.000		Power-50%	0.000		P-value	0.2265
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.3667	Power	0.000		Power-50%	0.000		P-value	0.1751

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

Table D-86, Page 10, December 21, 1994

Table D-86. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, May 1991. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	21.667	16.003	6	1155.333	724.570	-	0.0124	6	4.808	2.833	6	129.126	101.224	-	0.1105		
50981C/50221	1	6	195.000	102.981	6	11.367	10.399	+	0.0426	6	17.248	10.653	6	0.765	0.710	+	0.0802		
50981C/50981	1	6	195.000	102.981	5	28.000	19.596	+	0.1330	6	17.248	10.653	5	4.726	3.622	+	0.2274		
Habitat Means			137.222	73.988		398.233	251.522	+			13.101	8.046		44.872	35.185	+			
Fisher's		Power	---		Power-50%	---		P-value	0.0410xy	Power	---		Power-50%	---		P-value	0.0917		
Stouffer's		Power	0.010		Power-50%	0.233		P-value	0.2761	Power	0.004		Power-50%	0.189		P-value	0.2160		
C15.1C/C15.1	2	6	303.600	143.064	6	1517.233	245.558	-	0.0001	6	17.868	8.587	6	68.264	25.790	-	0.1061		
50981C/50221	2	6	720.000	220.540	6	269.450	144.028	+	0.0913	6	83.052	31.182	6	9.047	4.834	+	0.0205		
50981C/50981	2	6	720.000	220.540	6	126.117	35.691	+	0.0286	6	83.052	31.182	6	10.151	6.120	+	0.0223		
Habitat Means			581.200	194.715		637.600	141.759	+			61.324	23.650		29.154	12.248	+			
Fisher's		Power	---		Power-50%	---		P-value	0.0230xy	Power	---		Power-50%	---		P-value	0.0056		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.5028	Power	---		Power-50%	---		P-value	0.0423		
C15.1C/C15.1	3	0	--	--	2	2458.350	1418.350	----		0	--	--	2	66.708	16.141	----			
50981C/50221	3	3	223.867	77.004	2	340.850	280.850	-	0.9717	3	31.405	14.166	2	10.305	4.935	-	0.4507		
50981C/50981	3	3	223.867	77.004	5	356.000	178.160	-	0.7140	3	31.405	14.166	5	11.306	5.625	-	0.3614		
Habitat Means			223.867	77.004		1051.733	625.787	-			31.405	14.166		29.440	8.900	-			
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.4773	Power	0.000		Power-50%	0.000		P-value	0.1711		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.3883	Power	0.000		Power-50%	0.000		P-value	0.1193		

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

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

z Only one site pair.

Table D-86. Page 11. December 21, 1994

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	15.000	9.574	-	0.1749	6	0.000	0.000	6	0.592	0.423	-	0.2495		
50981C/50221	1	6	13.333	8.433	6	0.000	0.000	+	0.1747	6	0.572	0.514	6	0.000	0.000	+	0.2655		
50981C/50981	1	6	13.333	8.433	5	2.000	2.000	+	0.4534	6	0.572	0.514	5	0.204	0.204	+	0.4918		
Habitat Means			8.889	5.622		5.667	3.858	+			0.381	0.343		0.265	0.209	+			
Fisher's		Power	0.777		Power-50%	0.617		P-value	0.2361	Power	0.018		Power-50%	0.046		P-value	0.3107		
Stouffer's		Power	0.238		Power-50%	0.644		P-value	0.3325	Power	0.001		Power-50%	0.074		P-value	0.3539		
C15.1C/C15.1	2	6	13.883	9.282	6	42.783	13.295	-	0.0562	6	1.417	1.000	6	0.562	0.148	-	0.4518		
50981C/50221	2	6	130.283	59.138	6	21.117	19.807	+	0.0780	6	2.292	0.849	6	1.104	1.088	-	0.2977		
50981C/50981	2	6	130.283	59.138	6	12.217	6.536	+	0.1536	6	2.292	0.849	6	0.544	0.349	-	0.1294		
Habitat Means			91.483	42.519		25.372	13.213	+			2.000	0.899		0.737	0.528	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0695x	Power	---		Power-50%	---		P-value	0.0564		
Stouffer's		Power	0.443		Power-50%	0.654		P-value	0.2299	Power	---		Power-50%	---		P-value	0.0280		
C15.1C/C15.1	3	0	--	--	2	149.150	59.150	----		0	--	--	2	2.488	0.863	----			
50981C/50221	3	3	155.000	70.060	2	205.000	165.000	-	0.8877	3	3.193	1.564	2	10.035	7.915	-	0.4620		
50981C/50981	3	3	155.000	70.060	5	40.320	15.884	+	0.1958	3	3.193	1.564	5	2.131	0.998	+	0.8080		
Habitat Means			155.000	70.060		131.490	80.011	+			3.193	1.564		4.885	3.259	-			
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.2129	Power	0.000		Power-50%	0.000		P-value	0.4107		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.2075	Power	0.000		Power-50%	0.000		P-value	0.3638		

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

Table D-86. Page 11. December 21, 1994

Table D-86. Page 12. December 21, 1994

Table D-86. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, May 1991. (Continued.)

Mytilus edulis - abundance (#/m^2)										Mytilus edulis - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	10.000	6.325	6	828.667	509.061	-	0.0500	6	1.967	1.365	6	836.249	520.879	-	0.0867		
50981C/50221	1	6	363.333	320.132	6	2.217	2.217	+	0.3743	6	139.742	119.070	6	0.483	0.483	-	0.0554		
50981C/50981	1	6	363.333	320.132	5	50.000	22.583	-	0.4614	6	139.742	119.070	5	31.312	20.240	-	0.7350		
Habitat Means			245.555	215.530		293.628	177.954	-			93.817	79.835		289.348	180.534	-			
Fisher's		Power	0.041		Power-50%	0.291	P-value	0.3867 _{xy}		Power	0.026		Power-50%	0.288	P-value	0.1593 _{xy}			
Stouffer's		Power	0.088		Power-50%	0.581	P-value	0.5769		Power	0.084		Power-50%	0.559	P-value	0.3774			
C15.1C/C15.1	2	6	340.550	133.339	6	627.217	279.582	-	0.2733	6	136.415	67.226	6	736.623	363.196	-	0.1017		
50981C/50221	2	6	571.100	221.552	6	86.100	42.040	+	0.0688	6	372.874	96.147	6	95.202	45.728	+	0.0599		
50981C/50981	2	6	571.100	221.552	6	149.450	46.044	+	0.1112	6	372.874	96.147	6	335.786	116.278	+	0.3815		
Habitat Means			494.250	192.148		287.589	122.555	+			294.054	86.507		389.204	175.067	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0461		Power	0.001		Power-50%	0.002	P-value	0.1075 _y			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0904		Power	0.000		Power-50%	0.000	P-value	0.2589			
C15.1C/C15.1	3	0	--	--	2	128.350	78.350	----		0	--	--	2	67.647	62.157	----			
50981C/50221	3	3	1557.767	470.136	2	381.650	101.650	-	0.0504	3	239.702	23.144	2	254.292	40.518	-	0.7723		
50981C/50981	3	3	1557.767	470.136	5	346.000	91.540	-	0.0593	3	239.702	23.144	5	396.882	146.803	-	0.9614		
Habitat Means			1557.767	470.136		285.333	90.513	-			239.702	23.144		239.607	83.159	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0061		Power	0.000		Power-50%	0.000	P-value	0.4982 _y			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0033		Power	0.000		Power-50%	0.000	P-value	0.4058			

y direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-86, Page 13, December 21, 1994

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	6.667	6.667	6	25.333	12.347	-	0.2438	6	0.000	0.000	6	0.015	0.010	-	0.1671		
50981C/50221	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632		
50981C/50981	1	6	1.667	1.667	5	2.000	2.000	-	0.9000	6	0.000	0.000	5	0.001	0.001	-	0.9000		
Habitat Means			3.334	3.334		9.111	4.782	-			0.000	0.000		0.005	0.004	-			
Fisher's	Power		0.003		Power-50%	---	P-value	0.4004		Power	0.005		Power-50%	---	P-value	0.3243			
Stouffer's	Power		0.000		Power-50%	---	P-value	0.4128		Power	0.001		Power-50%	---	P-value	0.3649			
C15.1C/C15.1	2	6	30.000	24.221	6	40.567	18.669	-	0.6106	6	0.018	0.009	6	0.015	0.010	-	0.7786		
50981C/50221	2	6	10.833	10.833	6	9.733	9.733	+	0.9576	6	0.006	0.006	6	0.012	0.011	-	0.6154		
50981C/50981	2	6	10.833	10.833	6	0.550	0.550	+	0.6202	6	0.006	0.006	6	0.000	0.000	-	0.6202		
Habitat Means			17.222	15.296		16.950	9.651	+			0.010	0.007		0.009	0.007	-			
Fisher's	Power		0.459		Power-50%	0.275	P-value	0.6036		Power	0.365		Power-50%	0.793	P-value	0.5443			
Stouffer's	Power		0.470		Power-50%	0.383	P-value	0.4909		Power	0.325		Power-50%	0.857	P-value	0.4339			
C15.1C/C15.1	3	0	--	--	2	51.600	31.600	----		0	--	--	2	0.013	0.012	----			
50981C/50221	3	3	877.233	587.581	2	178.350	98.350	+	0.2679	3	0.588	0.463	2	0.100	0.060	+	0.3648		
50981C/50981	3	3	877.233	587.581	5	30.340	14.435	+	0.0182	3	0.588	0.463	5	0.030	0.015	+	0.0434		
Habitat Means			877.233	587.581		86.763	48.128	-			0.588	0.463		0.048	0.029	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0094		Power	---		Power-50%	---	P-value	0.0259			
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0071		Power	---		Power-50%	---	P-value	0.0193			

y direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-86, Page 14, December 21, 1994

Table D-86. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, May 1991. (Continued.)

Site Pair	MVD	Pagurus spp. - abundance (#/m ²)								Pagurus spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50221	2	6	3.333	3.333	6	0.000	0.000	o	0.3632	6	0.030	0.030	6	0.000	0.000	o	0.3632
50981C/50981	2	6	3.333	3.333	6	0.000	0.000	-	0.3632	6	0.030	0.030	6	0.000	0.000	-	0.3632
Habitat Means			2.222	2.222		0.000	0.000	-			0.020	0.020		0.000	0.000	-	
Fisher's	Power		---		Power-50%	---	P-value	0.2231		Power	---		Power-50%	---	P-value	0.2231	
Stouffer's	Power		---		Power-50%	---	P-value	0.1469		Power	---		Power-50%	---	P-value	0.1469	
C15.1C/C15.1	3	0	--	--	2	0.000	0.000	----		0	--	--	2	0.000	0.000	----	
50981C/50221	3	3	0.000	0.000	2	13.300	13.300	-	0.5000	3	0.000	0.000	2	0.067	0.067	-	0.5000
50981C/50981	3	3	0.000	0.000	5	36.000	22.935	-	0.0871	3	0.000	0.000	5	1.878	1.378	-	0.0808
Habitat Means			0.000	0.000		16.433	12.078	-			0.000	0.000		0.648	0.482	-	
Fisher's	Power		---		Power-50%	---	P-value	0.0601		Power	---		Power-50%	---	P-value	0.0565	
Stouffer's	Power		---		Power-50%	---	P-value	0.0458		Power	---		Power-50%	---	P-value	0.0435	

1. SELECTION OF SPECIES FOR ANALYSIS BASED ON PRELIMINARY ANALYSIS OF OVERALL DATA.

2. Only one site pair.

Table D-86, Page 15, December 21, 1994

Site Pair	MVD	Nucella spp. - abundance (#/m^2)								Nucella spp. - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power		---		Power-50%	---	P-value	0.6552
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power		---		Power-50%	---	P-value	0.5000
C15.1C/C15.1	2	6	0.000	0.000	6	1.117	1.117	-	0.3632	6	0.000	0.000	6	0.038	0.038	-	0.3632
50981C/50221	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.372	0.372	-			0.000	0.000		0.013	0.013	-	
Fisher's	Power		---		Power-50%	---	P-value	0.4028		Power		---		Power-50%	---	P-value	0.4028
Stouffer's	Power		---		Power-50%	---	P-value	0.2998		Power		---		Power-50%	---	P-value	0.2998
C15.1C/C15.1	3	0	--	--	2	5.000	5.000	----		0	--	--	2	11.350	11.350	----	
50981C/50221	3	3	0.000	0.000	2	0.000	0.000	o	1.0000	3	0.000	0.000	2	0.000	0.000	o	1.0000
50981C/50981	3	3	0.000	0.000	5	4.000	4.000	-	0.3739	3	0.000	0.000	5	6.466	6.466	-	0.3739
Habitat Means			0.000	0.000		3.000	3.000	-			0.000	0.000		5.939	5.939	-	
Fisher's	Power		---		Power-50%	---	P-value	0.3150		Power		---		Power-50%	---	P-value	0.3150
Stouffer's	Power		---		Power-50%	---	P-value	0.2648		Power		---		Power-50%	---	P-value	0.2648

1. SELECTION OF SPECIES FOR ANALYSIS BASED ON PRELIMINARY ANALYSIS OF OVERALL DATA.

2. Only one site pair.

Table D-86, Page 16, December 21, 1994

Table D-86. Invertebrate Abundance and Biomass. Cook Inlet/Kanai. Estuarine. May 1991. (Continued.)

Nucella lima - abundance (#/m ²)										Nucella lima - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	3	0	---	---	2	5.000	5.000	----		0	---	---	2	11.350	11.350	----			
50981C/50221	3	3	0.000	0.000	2	0.000	0.000	o	1.0000	3	0.000	0.000	2	0.000	0.000	o	1.0000		
50981C/50981	3	3	0.000	0.000	5	4.000	4.000	-	0.3739	3	0.000	0.000	5	6.466	6.466	-	0.3739		
Habitat Means			0.000	0.000		3.000	3.000	-			0.000	0.000		5.939	5.939	-			
Fisher's	Power		---		Power-50%	---	P-value	0.3150		Power	---		Power-50%	---	P-value	0.3150			
Stouffer's	Power		---		Power-50%	---	P-value	0.2648		Power	---		Power-50%	---	P-value	0.2648			

Nucella lamellosa - abundance (#/m ²)										Nucella lamellosa - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6552		Power	---		Power-50%	---	P-value	0.6552			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
C15.1C/C15.1	3	0	---	---	2	0.000	0.000	----		0	---	---	2	0.000	0.000	----			
50981C/50221	3	3	0.000	0.000	2	0.000	0.000	o	1.0000	3	0.000	0.000	2	0.000	0.000	o	1.0000		
50981C/50981	3	3	0.000	0.000	5	0.000	0.000	o	1.0000	3	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			

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

Table D-86. Page 17. December 21, 1994

Table D-86. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, May 1991. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	30.550	16.473	6	681.000	474.621	-	0.2016	6	0.023	0.017	6	11.498	10.071	-	0.0386		
50981C/50221	1	6	46.667	31.693	6	165.567	121.051	-	0.7119	6	0.095	0.075	6	0.762	0.642	-	0.4556		
50981C/50981	1	6	46.667	31.693	5	8.000	3.742	+	0.7257	6	0.095	0.075	5	0.108	0.069	-	0.6164		
Habitat Means			41.295	26.620		284.856	199.805	-			0.071	0.056		4.123	3.594	-			
Fisher's		Power	0.040		Power-50%	0.478	P-value	0.2724		Power	---		Power-50%	---	P-value	0.0399			
Stouffer's		Power	0.030		Power-50%	0.586	P-value	0.2272		Power	---		Power-50%	---	P-value	0.0278			
C15.1C/C15.1	2	6	505.550	243.059	6	743.333	629.998	-	0.7428	6	1.377	0.609	6	3.293	3.009	-	0.7938		
50981C/50221	2	6	105.817	30.955	6	901.950	475.932	-	0.2763	6	0.112	0.056	6	5.214	3.080	-	0.3587		
50981C/50981	2	6	105.817	30.955	6	1178.900	928.518	-	0.1455	6	0.112	0.056	6	3.152	2.369	-	0.3952		
Habitat Means			239.061	101.656		941.394	678.149	-			0.534	0.240		3.886	2.819	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0829		Power	0.008		Power-50%	0.000	P-value	0.2019			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0486		Power	0.066		Power-50%	0.000	P-value	0.1207			
C15.1C/C15.1	3	0	--	--	2	3042.500	2227.500	---	---	0	--	--	2	14.525	12.535	---	---		
50981C/50221	3	3	406.667	29.059	2	1860.850	900.850	-	0.0412	3	0.497	0.112	2	7.662	6.062	-	0.0734		
50981C/50981	3	3	406.667	29.059	5	2985.340	1000.561	-	0.0615	3	0.497	0.112	5	17.520	9.637	-	0.0069		
Habitat Means			406.667	29.059		2629.563	1376.304	-			0.497	0.112		13.236	9.411	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0053		Power	---		Power-50%	---	P-value	0.0013			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0028		Power	---		Power-50%	---	P-value	0.0007			

* At least one site pair p-value < 0.005 in opposite direction of overall mean.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-86. Page 19. December 21, 1994

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	18.333	18.333	6	800.000	646.287	-	0.2438	6	0.020	0.020	6	20.873	18.931	-	0.2682		
50981C/50221	1	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632		
50981C/50981	1	6	3.333	3.333	5	0.000	0.000	+	0.3632	6	0.001	0.001	5	0.000	0.000	+	0.3632		
Habitat Means			8.333	8.333		266.667	215.429	+			0.007	0.007		6.958	6.310	+			
Fisher's		Power	0.267		Power-50%	---	P-value	0.3132	y	Power	0.074		Power-50%	---	P-value	0.3106	y		
Stouffer's		Power	0.446		Power-50%	---	P-value	0.3531		Power	0.358		Power-50%	---	P-value	0.3407			
C15.1C/C15.1	2	6	35.550	18.965	6	171.667	89.122	-	0.3688	6	1.816	1.330	6	1.338	0.808	+	0.8200		
50981C/50221	2	6	49.167	29.620	6	220.000	131.441	-	0.4872	6	1.217	0.910	6	3.803	2.210	-	0.2242		
50981C/50981	2	6	49.167	29.620	6	179.450	84.674	-	0.7704	6	1.217	0.910	6	3.575	2.017	-	0.2668		
Habitat Means			44.628	26.068		190.372	101.746	-			1.417	1.050		2.905	1.678	-			
Fisher's		Power	0.251		Power-50%	0.376	P-value	0.2299		Power	0.038		Power-50%	0.070	P-value	0.1493			
Stouffer's		Power	0.354		Power-50%	0.615	P-value	0.1383		Power	0.142		Power-50%	0.358	P-value	0.1128			
C15.1C/C15.1	3	0	--	--	2	1885.000	1715.000	---	---	0	--	--	2	13.158	12.072	---	---		
50981C/50221	3	3	250.567	31.617	2	919.150	519.150	-	0.1131	3	2.378	1.586	2	10.857	6.617	-	0.1777		
50981C/50981	3	3	250.567	31.617	5	1308.000	505.326	-	0.1256	3	2.378	1.586	5	22.713	9.548	-	0.0872		
Habitat Means			250.567	31.617		1370.717	913.159	-			2.378	1.586		15.576	9.412	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0236		Power	---		Power-50%	---	P-value	0.0254			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0138		Power	---		Power-50%	---	P-value	0.0153			

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

Table D-86, Page 19. December 21, 1994

Table D-86, Page 20. December 21, 1994

Table D-86. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, May 1991. (Continued.)

Errant polychaetes - abundance (#/m ²)										Errant polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
C15.1C/C15.1	1	6	1.667	1.667	6	5.333	5.333	-	0.8008	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50221	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
50981C/50981	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.556	0.556		1.778	1.778	-			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---		P-value	0.5956	Power	---		Power-50%	---		P-value	0.6552		
Stouffer's	Power		---		Power-50%	---		P-value	0.4422	Power	---		Power-50%	---		P-value	0.5000		
C15.1C/C15.1	2	6	3.333	3.333	6	356.100	343.544	-	0.2268	6	1.203	1.203	6	9.638	8.681	-	0.4121		
50981C/50221	2	6	251.650	223.123	6	164.450	164.450	+	0.7624	6	0.868	0.664	6	0.080	0.080	+	0.3347		
50981C/50981	2	6	251.650	223.123	6	22.767	22.767	+	0.4296	6	0.868	0.664	6	1.033	1.033	-	0.4383		
Habitat Means			168.878	149.860		181.106	176.920	+			0.980	0.844		3.584	3.265	-			
Fisher's	Power		0.002		Power-50%	0.212		P-value	0.5127 y	Power	0.013		Power-50%	0.144		P-value	0.3633		
Stouffer's	Power		0.003		Power-50%	0.314		P-value	0.5270	Power	0.041		Power-50%	0.256		P-value	0.3580		
C15.1C/C15.1	3	0	--	--	2	67.500	17.500	----		0	--	--	2	1.404	0.666	----			
50981C/50221	3	3	608.867	177.557	2	1144.950	335.050	-	0.2247	3	4.912	4.087	2	9.363	8.003	-	0.5955		
50981C/50981	3	3	608.867	177.557	5	292.000	188.876	+	0.2249	3	4.912	4.087	5	7.952	6.356	-	0.5164		
Habitat Means			608.867	177.557		501.483	180.475	-			4.912	4.087		6.240	5.008	-			
Fisher's	Power		0.001		Power-50%	0.000		P-value	0.3296 y	Power	0.000		Power-50%	0.000		P-value	0.2741		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.4999	Power	0.000		Power-50%	0.000		P-value	0.2022		

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

Table D-86, Page 21. December 21, 1994

Site Pair	MVD	Sedentary polychaetes - abundance (#/m^2)								Sedentary polychaetes - biomass (g/m^2)								
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
C15.1C/C15.1	1	6	0.000	0.000	6	1.667	1.667	-	0.5212	6	0.000	0.000	6	0.001	0.001	-	0.3336	
50981C/50221	1	6	10.000	10.000	6	0.000	0.000	+	0.2748	6	0.001	0.001	6	0.000	0.000	+	0.3336	
50981C/50981	1	6	10.000	10.000	5	0.000	0.000	+	0.2973	6	0.001	0.001	5	0.000	0.000	+	0.3563	
Habitat Means			6.667	6.667		0.556	0.556	+			0.001	0.001		0.000	0.000			
Fisher's	Power		---		Power-50%	---		P-value	0.2112	Power		---		Power-50%	---		P-value	0.2857
Stouffer's	Power		---		Power-50%	---		P-value	0.1943	Power		---		Power-50%	---		P-value	0.2972
C15.1C/C15.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
50981C/50221	2	6	236.117	199.365	6	0.000	0.000	+	0.0887	6	0.334	0.323	6	0.000	0.000	+	0.1132	
50981C/50981	2	6	236.117	199.365	6	0.000	0.000	+	0.0887	6	0.334	0.323	6	0.000	0.000	-	0.1132	
Habitat Means			157.411	132.910		0.000	0.000	-			0.223	0.215		0.000	0.000	-		
Fisher's	Power		---		Power-50%	---		P-value	0.0314	Power		---		Power-50%	---		P-value	0.0451
Stouffer's	Power		---		Power-50%	0.084		P-value	0.0246	Power		---		Power-50%	---		P-value	0.0337
C15.1C/C15.1	3	0	--	--	2	0.000	0.000	----		0	--	--	2	0.000	0.000	----		
50981C/50221	3	3	1464.933	700.044	2	169.200	30.800	+	0.0460	3	2.062	0.565	2	3.240	2.200	-	0.7797	
50981C/50981	3	3	1464.933	700.044	5	44.000	36.688	+	0.0111	3	2.062	0.565	5	0.016	0.016	+	0.0012	
Habitat Means			1464.933	700.044		71.067	22.496	+			2.062	0.565		1.085	0.739	+		
Fisher's	Power		---		Power-50%	---		P-value	0.0013	Power		---		Power-50%	---		P-value	0.0033
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0007	Power		---		Power-50%	---		P-value	0.0182

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-86, Page 22. December 21, 1994

Table D-86. Invertebrate Abundance and Biomass. Cook Inlet/Kenai, Estuarine, May 1991. (Continued.)

Site Pair	MVD	Oligochaeta - abundance (#/m ²)								Oligochaeta - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	4355.000	943.980	6	4124.333	2415.974	+	0.9119	6	3.359	1.018	6	2.108	1.428	+	0.3438
50981C/50221	1	6	4256.667	1010.563	6	5063.050	1426.746	-	0.6993	6	1.790	0.222	6	3.294	0.961	-	0.2566
50981C/50981	1	6	4256.667	1010.563	5	4345.340	1540.865	-	0.9677	6	1.790	0.222	5	4.271	1.094	-	0.0790
Habitat Means			4289.445	988.369		4510.908	1794.528	-			2.313	0.487		3.224	1.161	-	
Fisher's		Power	0.015		Power-50%	0.000		P-value	0.5735	Power	---		Power-50%	---		P-value	0.0900
Stouffer's		Power	0.038		Power-50%	0.000		P-value	0.4277	Power	0.042		Power-50%	0.000		P-value	0.1307
C15.1C/C15.1	2	6	8374.167	2067.763	6	10905.566	4191.328	-	0.4080	6	6.762	1.816	6	5.558	2.152	-	0.7943
50981C/50221	2	6	3336.384	1349.806	6	8484.450	2230.556	-	0.8111	6	7.280	5.060	6	5.662	1.782	-	0.7261
50981C/50981	2	6	3336.384	1349.806	6	6220.017	930.438	-	0.3321	6	7.280	5.060	6	4.787	0.715	-	0.5899
Habitat Means			5015.645	1589.125		8536.678	2450.774	-			7.107	3.979		5.336	1.550	+	
Fisher's		Power	0.002		Power-50%	0.000		P-value	0.1989	Power	0.000		Power-50%	0.000		P-value	0.3888
Stouffer's		Power	0.009		Power-50%	0.000		P-value	0.1199	Power	0.000		Power-50%	0.000		P-value	0.2536
C15.1C/C15.1	3	0	--	--	2	7400.800	440.800	---		0	--	---	2	3.276	0.274	---	
50981C/50221	3	3	2130.000	842.857	2	2103.000	1615.000	+	0.7473	3	1.095	0.530	2	0.786	0.653	-	0.5619
50981C/50981	3	3	2130.000	842.857	5	5224.680	900.703	-	0.0503	3	1.095	0.530	5	2.120	0.797	-	0.6483
Habitat Means			2130.000	842.857		4910.160	985.501	-			1.095	0.530		2.061	0.575	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0811	Power	0.000		Power-50%	0.000		P-value	0.5053 y
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.1237	Power	0.000		Power-50%	0.000		P-value	0.4651

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

Table D-86, Page 23, December 21, 1994

Site Pair	MVD	Total Invertebrates - abundance (#/m ²)								Total Invertebrates - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
C15.1C/C15.1	1	6	5588.333	1219.375	6	12025.667	4838.177	-	0.8530	6	24.555	10.956	6	1226.364	692.205	-	0.0065
50981C/50221	1	6	8433.333	2839.808	6	6113.600	1627.557	+	0.7338	6	282.791	217.068	6	60.614	35.512	-	0.5165
50981C/50981	1	6	8433.333	2839.808	5	5538.000	1388.439	+	0.7639	6	282.791	217.068	5	113.368	71.554	-	0.6708
Habitat Means			7485.000	2299.664		7892.422	2618.058	+			196.712	148.364		466.782	266.424	+	
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.5384 y	Power	0.000		Power-50%	0.000		P-value	0.5568 xy
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.3965	Power	0.000		Power-50%	0.000		P-value	0.8294
C15.1C/C15.1	2	6	19338.818	6064.914	6	18400.584	4277.730	+	0.8490	6	234.738	96.736	6	1047.305	380.383	-	0.0044
50981C/50221	2	6	8739.149	2341.557	6	13770.565	2019.128	-	0.3112	6	610.924	122.942	6	271.540	89.306	+	0.2084
50981C/50981	2	6	8739.149	2341.557	6	10831.150	1204.620	-	0.6715	6	610.924	122.942	6	411.317	129.562	+	0.4554
Habitat Means			12272.372	3582.676		14334.100	2500.493	-			485.529	114.207		576.721	199.750	-	
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.3200	Power	0.000		Power-50%	0.000		P-value	0.2782 xy
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.2359	Power	0.000		Power-50%	0.000		P-value	0.6870
C15.1C/C15.1	3	0	--	--	2	17333.949	976.051	---		0	--	---	2	249.767	77.295	---	
50981C/50221	3	3	13467.601	1569.200	2	10499.750	189.749	+	0.2009	3	418.076	62.458	2	481.816	80.075	-	0.5580
50981C/50981	3	3	13467.601	1569.200	5	15628.318	2576.844	-	0.7230	3	418.076	62.458	5	732.970	203.807	-	0.5361
Habitat Means			13467.601	1569.200		14487.339	1247.548	+			418.076	62.458		488.184	120.392	-	
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.2403 y	Power	0.000		Power-50%	0.000		P-value	0.2687
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.2565	Power	0.000		Power-50%	0.000		P-value	0.1973

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

Table D-86, Page 24, December 21, 1994

Table D-87. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	123.333	48.488	5	20.000	4.472	+	0.7127	6	27.957	11.657	5	7.660	2.234	+	0.4504		
31252C/31248	1	6	73.333	17.062	6	138.333	44.975	-	0.8125	6	11.802	3.283	6	22.375	8.031	-	0.5811		
31252C/31252	1	6	73.333	17.062	6	135.000	48.356	-	0.4052	6	11.802	3.283	6	18.193	5.993	-	0.4294		
99826C/33141	1	6	180.000	74.027	6	50.000	25.298	+	0.3308	6	35.718	14.045	6	7.712	4.835	+	0.3537		
Habitat Means			112.500	39.160		85.833	30.775	+			21.820	8.067		13.985	5.273	+			
Fisher's		Power	0.002		Power-50%	0.006	P-value	0.5197		Power	0.002		Power-50%	0.005	P-value	0.4718			
Stouffer's		Power	0.005		Power-50%	0.023	P-value	0.5159		Power	0.005		Power-50%	0.021	P-value	0.4457			
30196C/30196	2	6	8.333	5.426	6	26.667	14.063	-	0.3387	6	0.500	0.322	6	11.402	6.805	-	0.1687		
31252C/31248	2	6	116.667	51.294	6	41.667	19.734	+	0.5824	6	12.648	6.724	6	6.858	3.065	+	0.9472		
31252C/31252	2	6	116.667	51.294	6	160.000	126.438	-	0.8430	6	12.648	6.724	6	5.835	2.336	+	0.8832		
99826C/33141	2	6	126.667	41.687	6	5.000	3.416	+	0.0042	6	20.138	6.535	6	0.693	0.444	-	0.0063		
Habitat Means			92.084	37.425		58.334	40.913	+			11.484	5.076		6.197	3.163	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0387		Power	---		Power-50%	---	P-value	0.0626			
Stouffer's		Power	0.226		Power-50%	0.596	P-value	0.6462		Power	0.056		Power-50%	0.588	P-value	0.7956			
30196C/30196	3	5	26.000	14.697	6	8.333	4.773	-	0.4769	5	6.774	3.112	6	2.400	2.013	+	0.5015		
31252C/31248	3	6	25.000	7.638	5	102.000	53.235	-	0.1832	6	2.863	0.827	5	8.884	5.854	-	0.6371		
31252C/31252	3	6	25.000	7.638	6	63.333	24.989	-	0.7231	6	2.863	0.827	6	9.280	4.658	-	0.7572		
99826C/33141	3	1	0.000	---	5	14.000	11.662	-	0.9000	1	0.000	---	5	1.236	0.872	-	0.9000		
Habitat Means			19.000	9.991		46.917	23.665	-			3.125	1.589		5.450	3.349	-			
Fisher's		Power	0.010		Power-50%	0.008	P-value	0.3459		Power	0.004		Power-50%	0.022	P-value	0.6020			
Stouffer's		Power	0.027		Power-50%	0.042	P-value	0.4269		Power	0.014		Power-50%	0.072	P-value	0.5800			

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

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Lottia pelta - abundance (#/m ²)										Lottia pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	58.333	37.454	5	4.000	2.449	+	0.5128	6	18.040	11.430	5	3.966	2.492	+	0.9881		
31252C/31248	1	6	10.000	6.831	6	28.333	14.472	-	0.2862	6	2.965	2.091	6	10.903	5.129	-	0.2363		
31252C/31252	1	6	10.000	6.831	6	36.667	31.056	-	0.7714	6	2.965	2.091	6	3.942	3.450	-	0.9903		
99826C/33141	1	6	61.667	27.008	6	1.667	1.667	+	0.0132	6	14.892	7.203	6	0.167	0.167	+	0.0168		
Habitat Means			35.000	19.531		17.667	12.411	+			9.716	5.704		4.745	2.810	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0806		Power	0.210		Power-50%	0.531	P-value	0.1268			
Stouffer's		Power	0.297		Power-50%	0.596	P-value	0.4574		Power	0.353		Power-50%	0.581	P-value	0.6445			
30196C/30196	2	6	3.333	3.333	6	13.333	9.545	-	0.7087	6	0.145	0.145	6	8.055	6.853	-	0.1840		
31252C/31248	2	6	28.333	13.520	6	26.667	13.581	+	0.9503	6	6.347	3.768	6	5.233	2.795	+	0.6678		
31252C/31252	2	6	28.333	13.520	6	16.667	11.155	+	0.6631	6	6.347	3.768	6	2.173	1.499	+	0.5010		
99826C/33141	2	6	93.333	45.216	6	3.333	2.108	+	0.0016	6	16.777	7.335	6	0.528	0.389	+	0.0018		
Habitat Means			38.333	18.897		15.000	9.097	+			7.404	3.754		3.997	2.884	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0158		Power	---		Power-50%	---	P-value	0.0139			
Stouffer's		Power	0.065		Power-50%	0.635	P-value	0.4543		Power	0.006		Power-50%	0.521	P-value	0.6561			
30196C/30196	3	5	4.000	2.449	6	0.000	0.000	+	0.1778	5	1.928	1.213	6	0.000	0.000	+	0.1779		
31252C/31248	3	6	15.000	4.282	5	38.000	28.355	-	0.8776	6	1.640	0.419	5	5.390	3.936	-	0.6461		
31252C/31252	3	6	15.000	4.282	6	60.000	24.358	-	0.3718	6	1.640	0.419	6	8.970	4.694	-	0.6750		
99826C/33141	3	1	0.000	---	5	8.000	5.831	-	0.9000	1	0.000	---	5	0.846	0.533	-	0.9000		
Habitat Means			8.500	3.671		26.500	14.636	-			1.302	0.684		3.802	2.291	-			
Fisher's		Power	0.020		Power-50%	0.308	P-value	0.5588		Power	0.019		Power-50%	0.334	P-value	0.6231			
Stouffer's		Power	0.000		Power-50%	0.444	P-value	0.7538		Power	0.000		Power-50%	0.471	P-value	0.7620			

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

Table D 87. Page 2. December 21, 1994

Table D-87. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Site Pair	MVD	Tectura persona - abundance (#/m ²)								Tectura persona - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	3.333	3.333	5	4.000	2.449	-	0.9869	6	0.832	0.832	5	1.420	0.944	-	0.9370
31252C/31248	1	6	60.000	11.832	6	85.000	27.049	-	0.5196	6	8.330	2.173	6	8.903	3.121	-	0.9356
31252C/31252	1	6	60.000	11.832	6	53.333	24.449	+	0.8633	6	8.330	2.173	6	7.097	4.513	+	0.8620
99826C/33141	1	6	98.333	59.128	6	45.000	25.528	+	0.1735	6	17.832	11.320	6	6.830	4.986	+	0.1267
Habitat Means			55.417	21.531		46.833	19.869	+			8.831	4.125		6.063	3.391	+	
Fisher's		Power	0.026		Power-50%	0.091	P-value	0.3833		Power	0.010		Power-50%	0.066	P-value	0.2847	
Stouffer's		Power	0.025		Power-50%	0.119	P-value	0.5607		Power	0.008		Power-50%	0.083	P-value	0.4711	
30196C/30196	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
31252C/31248	2	6	71.667	43.773	6	5.000	3.416	+	0.1417	6	5.873	3.367	6	0.250	0.162	+	0.1767
31252C/31252	2	6	71.667	43.773	6	8.333	5.426	+	0.2000	6	5.873	3.367	6	0.952	0.610	+	0.2704
99826C/33141	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.165	0.165	-	0.3632
Habitat Means			35.834	21.887		3.750	2.627	+			2.937	1.684		0.342	0.234	+	
Fisher's		Power	0.000		Power-50%	0.004	P-value	0.1657		Power	0.000		Power-50%	0.000	P-value	0.2228	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1407		Power	0.000		Power-50%	0.000	P-value	0.1691	
30196C/30196	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
31252C/31248	3	6	1.667	1.667	5	0.000	0.000	+	0.3632	6	0.338	0.338	5	0.000	0.000	+	0.3632
31252C/31252	3	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.338	0.338	6	0.000	0.000	+	0.3632
99826C/33141	3	1	0.000	--	5	0.000	0.000	o	1.0000	1	0.000	--	5	0.000	0.000	o	1.0000
Habitat Means			0.834	1.111		0.000	0.000	+			0.169	0.225		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	0.2945		Power	---		Power-50%	---	P-value	0.2945	
Stouffer's		Power	---		Power-50%	---	P-value	0.2269		Power	---		Power-50%	---	P-value	0.2269	

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

Table D-87, Page 3. December 21, 1994

Site Pair	MVD	Tectura scutum - abundance (#/m ²)								Tectura scutum - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
30196C/30196	2	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.067	0.067	6	1.550	1.550	-	0.7795
31252C/31248	2	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.140	0.140	-	0.3632
31252C/31252	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
99826C/33141	2	6	15.000	10.247	6	0.000	0.000	+	0.1768	6	1.990	1.271	6	0.000	0.000	+	0.1747
Habitat Means			4.167	2.979		1.250	1.250	+			0.514	0.335		0.423	0.423	-	
Fisher's		Power	0.106		Power-50%	0.374	P-value	0.4310		Power	0.994		Power-50%	0.648	P-value	0.5512	y
Stouffer's		Power	0.001		Power-50%	0.364	P-value	0.5277		Power	1.000		Power-50%	0.589	P-value	0.2910	
30196C/30196	3	5	2.000	2.000	6	6.667	4.944	-	0.5626	5	3.144	3.144	6	2.383	2.017	+	0.7419
31252C/31248	3	6	5.000	3.416	5	16.000	5.099	-	0.1163	6	0.593	0.498	5	1.192	0.483	-	0.1564
31252C/31252	3	6	5.000	3.416	6	3.333	2.108	+	0.8914	6	0.593	0.498	6	0.310	0.253	+	0.9264
99826C/33141	3	1	0.000	--	5	6.000	6.000	-	0.9000	1	0.000	--	5	0.390	0.390	-	0.9000
Habitat Means			3.000	2.944		8.000	4.538	-			1.083	1.380		1.069	0.786	-	
Fisher's		Power	0.018		Power-50%	0.748	P-value	0.2015		Power	0.001		Power-50%	0.277	P-value	0.3538	y
Stouffer's		Power	0.017		Power-50%	0.771	P-value	0.1229		Power	0.001		Power-50%	0.353	P-value	0.3545	

z Only one site pair.

Table D-87, Page 4. December 21, 1994

Table D-87. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Balanomorpha - abundance (#/m ²)										Balanomorpha - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	6235.000	854.306	5	994.000	324.925	-	0.0007	6	865.497	306.987	5	200.370	84.536	-	0.0208		
31252C/31248	1	6	4570.000	1726.409	6	6016.667	1900.389	-	0.5436	6	365.622	113.786	6	463.715	140.036	-	0.7113		
31252C/31252	1	6	4570.000	1726.409	6	8530.000	2158.413	-	0.1233	6	365.622	113.786	6	582.067	167.195	-	0.4158		
99826C/33141	1	6	9868.333	2658.528	6	1525.000	571.820	+	0.0652	6	902.387	287.515	6	317.155	122.134	-	0.0320		
Habitat Means			6310.833	1741.413		4266.417	1238.887	+			624.782	205.519		390.827	128.475	+			
Fisher's		Power	---		Power-50%	---		P-value	0.0028	Power	---		Power-50%	---		P-value	0.0163		
Stouffer's		Power	---		Power-50%	0.000		P-value	0.0210	Power	---		Power-50%	---		P-value	0.0597		
30196C/30196	2	6	833.333	557.714	6	423.333	113.920	-	0.3321	6	643.227	628.138	6	278.620	206.591	-	0.4057		
31252C/31248	2	6	6118.333	2556.851	6	10473.333	4976.964	-	0.5024	6	502.523	192.589	6	932.888	335.507	-	0.3272		
31252C/31252	2	6	6118.333	2556.851	6	18226.666	5153.986	-	0.0200	6	502.523	192.589	6	930.977	146.312	-	0.3293		
99826C/33141	2	6	5528.333	2396.124	6	793.333	508.623	+	0.0204	6	776.050	305.419	6	124.165	119.094	-	0.1408		
Habitat Means			4649.583	2016.885		7479.166	2688.373	-			606.081	329.684		566.663	201.876	-			
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.1360x	Power	0.000		Power-50%	0.000		P-value	0.3245		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.4238	Power	0.000		Power-50%	0.000		P-value	0.5111		
30196C/30196	3	5	1234.000	961.247	6	131.667	84.554	+	0.5794	5	548.780	525.253	6	55.157	32.622	+	0.8715		
31252C/31248	3	6	15706.667	4995.616	5	4830.000	2161.631	+	0.0682	6	1719.105	293.788	5	350.262	185.370	+	0.1131		
31252C/31252	3	6	15706.667	4995.616	6	19653.334	3546.841	-	0.3185	6	1719.105	293.788	6	1604.020	567.674	+	0.5515		
99826C/33141	3	1	290.000	--	5	455.320	292.486	-	0.9000	1	12.170	--	5	900.125	887.588	-	0.9000		
Habitat Means			8234.334	3650.826		6267.580	1521.378	-			999.790	370.943		727.391	418.314	+			
Fisher's		Power	0.001		Power-50%	0.000		P-value	0.2146	Power	0.000		Power-50%	0.000		P-value	0.1918		
Stouffer's		Power	0.006		Power-50%	0.007		P-value	0.1754	Power	0.001		Power-50%	0.005		P-value	0.1416		

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Only one site pair.

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	73.333	36.757	5	0.000	0.000	+	0.0101	6	0.988	0.568	5	0.000	0.000	-	0.0140		
31252C/31248	1	6	133.333	61.896	6	238.333	87.309	-	0.1257	6	1.505	0.731	6	3.897	1.453	-	0.1100		
31252C/31252	1	6	133.333	61.896	6	468.333	119.203	-	0.0461	6	1.505	0.731	6	7.363	2.682	-	0.0783		
99826C/33141	1	6	25.000	25.000	6	68.333	68.333	-	0.8860	6	0.290	0.290	6	1.045	1.045	-	0.9134		
Habitat Means			91.250	46.387		193.750	68.711	-			1.072	0.580		3.076	1.295	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0650x	Power	---		Power-50%	---		P-value	0.0854x		
Stouffer's		Power	0.000		Power-50%	0.422		P-value	0.7374	Power	0.000		Power-50%	0.358		P-value	0.7249		
30196C/30196	2	6	16.667	11.155	6	55.000	55.000	-	0.6091	6	0.047	0.035	6	0.760	0.760	-	0.8807		
31252C/31248	2	6	60.000	21.602	6	218.333	157.510	-	0.6587	6	0.717	0.298	6	3.622	2.564	-	0.5046		
31252C/31252	2	6	60.000	21.602	6	521.667	415.078	-	0.1425	6	0.717	0.298	6	6.195	5.055	-	0.1817		
99826C/33141	2	6	0.000	0.000	6	348.333	264.227	-	0.1768	6	0.000	0.000	6	2.488	1.585	-	0.1747		
Habitat Means			34.167	13.590		285.833	222.954	-			0.370	0.158		3.266	2.491	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0645	Power	---		Power-50%	---		P-value	0.0800		
Stouffer's		Power	0.125		Power-50%	0.682		P-value	0.1075	Power	0.095		Power-50%	0.460		P-value	0.1567		
30196C/30196	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	3	6	138.333	79.474	5	20.000	15.166	+	0.0231	6	1.393	0.843	5	0.314	0.287	+	0.0354		
31252C/31252	3	6	138.333	79.474	6	205.000	97.082	-	0.8296	6	1.393	0.843	6	1.837	1.054	-	0.4905		
99826C/33141	3	1	0.000	--	5	56.000	56.000	-	0.9000	1	0.000	--	5	0.308	0.308	-	0.9000		
Habitat Means			69.167	52.983		70.250	42.062	-			0.697	0.562		0.615	0.412	-			
Fisher's		Power	0.012		Power-50%	0.000		P-value	0.7822x	Power	0.004		Power-50%	0.000		P-value	0.6663x		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.8353	Power	0.000		Power-50%	0.000		P-value	0.7666		

1. Only one site pair.

Table D-87, Page 5. December 21, 1994

1. Only one site pair.

Table D-87, Page 6. December 21, 1994

Table D-87. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula, Sheltered Rocky, June 1990. (Continued.)

Balanus glandula - abundance (#/m^2)										Balanus glandula - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	2208.333	934.046	5	666.000	13.490	+	0.1435	6	598.692	271.905	5	183.964	86.889	-	0.3979		
31252C/31248	1	6	583.333	149.056	6	341.667	58.523	+	0.1334	6	104.353	26.455	6	50.915	21.175	-	0.0819		
31252C/31252	1	6	583.333	149.056	6	956.667	96.120	-	0.6805	6	104.353	26.455	6	165.565	61.172	-	0.5306		
99826C/33141	1	6	91.667	19.903	6	1403.333	29.998	-	0.6895	6	10.405	2.971	6	313.730	121.270	-	0.8815		
Habitat Means			866.667	313.015		841.917	49.533	-			204.451	81.947		178.544	72.626				
Fisher's	Power		0.000		Power-50%	0.00	P-value	0.1358		Power	0.000		Power-50%	0.000	P-value	0.1801			
Stouffer's	Power		---		Power-50%	0.00	P-value	0.0442		Power	0.000		Power-50%	0.000	P-value	0.1040			
30196C/30196	2	6	18.333	14.701	6	105.000	85.196	-	0.0732	6	0.617	0.557	6	38.693	29.798	-	0.0331		
31252C/31248	2	6	155.000	33.040	6	466.667	87.854	-	0.7870	6	30.268	9.533	6	132.625	104.528	-	0.9492		
31252C/31252	2	6	155.000	33.040	6	266.667	62.699	-	0.5034	6	30.268	9.533	6	62.792	23.153	-	0.3174		
99826C/33141	2	6	206.667	72.096	6	428.333	98.559	-	0.0702	6	42.747	16.151	6	120.892	117.811	-	0.1500		
Habitat Means			133.750	38.219		316.667	33.577	-			25.975	8.944		88.751	68.823	-			
Fisher's	Power		---		Power-50%	--	P-value	0.0217		Power	---		Power-50%	---	P-value	0.0174			
Stouffer's	Power		---		Power-50%	0.50	P-value	0.0261		Power	---		Power-50%	---	P-value	0.0136			
30196C/30196	3	5	12.000	12.000	6	0.000	0.000	+	0.3739	5	1.034	1.034	6	0.000	0.000	+	0.3739		
31252C/31248	3	6	136.667	53.458	5	30.000	27.568	+	0.0403	6	46.568	19.491	5	9.976	9.817	+	0.0269		
31252C/31252	3	6	136.667	53.458	6	28.333	16.003	+	0.0696	6	46.568	19.491	6	8.697	7.655	+	0.0455		
99826C/33141	3	1	20.000	--	5	18.000	6.633	+	0.9000	1	10.700	--	5	2.662	1.494	+	0.9000		
Habitat Means			76.334	39.639		19.083	12.551	+			26.218	13.339		5.334	4.742	+			
Fisher's	Power		---		Power-50%	--	P-value	0.0125		Power	---		Power-50%	---	P-value	0.0068			
Stouffer's	Power		---		Power-50%	0.36	P-value	0.0099		Power	---		Power-50%	---	P-value	0.0067			

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

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Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	3221.667	1026.822	5	288.000	48.000	-	0.0014	6	93.707	27.723	5	14.300	8.580	-	0.0067		
31252C/31248	1	6	3663.333	1444.734	6	5271.667	12.235	-	0.4693	6	256.658	89.455	6	406.185	118.648	-	0.6252		
31252C/31252	1	6	3663.333	1444.734	6	6373.333	26.505	-	0.2538	6	256.658	89.455	6	378.463	108.642	-	0.6204		
99826C/33141	1	6	8753.333	2485.188	6	28.333	28.333	-	0.0001	6	870.402	284.614	6	2.007	2.007	-	0.0001		
Habitat Means			4825.417	1600.370		2990.333	53.768	+			369.356	122.812		200.239	59.469	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0000		Power	---		Power-50%	---	P-value	0.0001			
Stouffer's	Power		---		Power-50%	0.00	P-value	0.0173		Power	---		Power-50%	---	P-value	0.0194			
30196C/30196	2	6	223.333	207.439	6	135.000	80.115	+	0.2646	6	11.538	11.128	6	22.373	17.214	-	0.1141		
31252C/31248	2	6	5698.333	2466.016	6	9441.667	41.483	-	0.7127	6	453.875	180.908	6	745.568	312.323	-	0.7886		
31252C/31252	2	6	5698.333	2466.016	6	16661.666	49.253	-	0.1964	6	453.875	180.908	6	837.338	125.720	-	0.5238		
99826C/33141	2	6	4731.667	2287.015	6	6.667	4.944	+	0.0001	6	672.073	289.199	6	0.538	0.528	+	0.0001		
Habitat Means			4087.917	1856.622		6561.250	21.449	+			397.840	165.536		401.454	113.946	-			
Fisher's	Power		---		Power-50%	---	P-value	0.0016 y		Power	0.003		Power-50%	0.000	P-value	0.2467 x			
Stouffer's	Power		0.002		Power-50%	0.05	P-value	0.2908		Power	---		Power-50%	---	P-value	0.0900			
30196C/30196	3	5	170.000	170.000	6	0.000	0.000	+	0.3739	5	17.954	17.954	6	0.000	0.000	+	0.3739		
31252C/31248	3	6	14741.667	4943.236	5	4624.000	267.082	-	0.0746	6	1555.748	291.950	5	336.560	175.138	-	0.1196		
31252C/31252	3	6	14741.667	4943.236	6	18113.334	31.888	-	0.3743	6	1555.748	291.950	6	1047.522	243.207	-	0.2756		
99826C/33141	3	1	190.000	---	5	112.660	82.256	-	0.9000	1	1.250	---	5	7.323	6.695	-	0.9000		
Habitat Means			7460.834	3352.157		5712.499	45.307	-			782.675	200.618		347.851	106.260	-			
Fisher's	Power		0.032		Power-50%	0.72	P-value	0.1538		Power	---		Power-50%	---	P-value	0.0780			
Stouffer's	Power		0.139		Power-50%	0.57	P-value	0.1072		Power	---		Power-50%	---	P-value	0.0341			

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

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Table D-87. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Lacuna spp. - abundance (#/m ²)										Lacuna spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	5	2.000	2.000	-	0.3739	6	0.000	0.000	5	0.012	0.012	-	0.3739		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.500	0.500	-			0.000	0.000		0.003	0.003	-			
Fisher's	Power		---		Power-50%	---		P-value	0.4825	Power	---		Power-50%	---		P-value	0.4825		
Stouffer's	Power		---		Power-50%	---		P-value	0.2369	Power	---		Power-50%	---		P-value	0.2369		
30196C/30196	2	6	33.333	29.515	6	0.000	0.000	+	0.1924	6	0.250	0.242	6	0.000	0.000	+	0.2017		
31252C/31248	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			8.333	7.379		0.000	0.000	+			0.063	0.061		0.000	0.000	+			
Fisher's	Power		0.001		Power-50%	0.001		P-value	0.3558	Power	0.000		Power-50%	0.000		P-value	0.3641		
Stouffer's	Power		0.055		Power-50%	0.031		P-value	0.1468	Power	0.011		Power-50%	0.007		P-value	0.1518		
30196C/30196	3	5	2.000	2.000	6	46.667	24.989	-	0.0901	5	0.018	0.018	6	0.378	0.237	-	0.1175		
31252C/31248	3	6	3.333	3.333	5	2.000	2.000	+	0.9695	6	0.010	0.010	5	0.006	0.006	+	0.9987		
31252C/31252	3	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.010	0.010	6	0.000	0.000	+	0.3632		
99826C/33141	3	1	0.000	--	5	0.000	0.000	o	1.0000	1	0.000	--	5	0.000	0.000	o	1.0000		
Habitat Means			2.167	2.889		12.167	6.747	+			0.010	0.013		0.096	0.061	+			
Fisher's	Power		0.364		Power-50%	---		P-value	0.6094w	Power	0.325		Power-50%	---		P-value	0.6128 v		
Stouffer's	Power		0.250		Power-50%	---		P-value	0.8470	Power	0.290		Power-50%	---		P-value	0.8255		

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

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

z Only one site pair.

Littorina spp. - abundance (#/m ²)										Littorina spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	3351.667	783.519	5	2952.000	892.409	+	0.8914	6	72.027	23.078	5	195.872	84.421	-	0.1578		
31252C/31248	1	6	680.000	137.937	6	573.333	149.034	+	0.7610	6	49.232	12.699	6	36.437	6.253	-	0.6924		
31252C/31252	1	6	680.000	137.937	6	1453.333	583.625	-	0.4257	6	49.232	12.699	6	46.712	13.964	-	0.7200		
99826C/33141	1	6	1418.333	446.015	6	3014.217	1398.450	-	0.8550	6	138.253	35.465	6	257.586	163.206	-	0.4138		
Habitat Means			1532.500	376.352		1998.221	755.880	-			77.186	20.985		134.152	66.961	-			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.5440	Power	0.000		Power-50%	0.000		P-value	0.2669		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.4817	Power	0.000		Power-50%	0.000		P-value	0.1878		
30196C/30196	2	6	2476.667	1197.421	6	4036.667	792.514	-	0.1442	6	44.048	29.565	6	115.482	41.514	-	0.1191		
31252C/31248	2	6	2010.000	534.185	6	1396.667	293.958	+	0.3551	6	106.567	19.598	6	51.948	12.758	+	0.0352		
31252C/31252	2	6	2010.000	534.185	6	3928.333	1367.522	-	0.3089	6	106.567	19.598	6	39.730	5.646	+	0.0030		
99826C/33141	2	6	1408.333	451.091	6	281.100	159.111	+	0.0387	6	73.417	23.921	6	13.941	5.899	+	0.0808		
Habitat Means			1976.250	679.221		2410.692	653.276	+			82.650	23.171		55.275	16.454	+			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.1588 y	Power	---		Power-50%	---		P-value	0.0006		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.8306	Power	0.000		Power-50%	0.000		P-value	0.1802		
30196C/30196	3	5	1438.000	1400.555	6	813.333	682.259	+	0.9806	5	15.656	15.601	6	7.715	6.495	+	0.4948		
31252C/31248	3	6	2738.333	888.029	5	1602.000	711.944	+	0.3065	6	57.313	12.426	5	64.268	32.039	-	0.5162		
31252C/31252	3	6	2738.333	888.029	6	4873.333	1628.583	-	0.2170	6	57.313	12.426	6	45.490	6.574	+	0.8473		
99826C/33141	3	1	10.000	--	5	106.660	60.811	-	0.9000	1	0.150	--	5	2.571	2.071	-	0.9000		
Habitat Means			1731.167	1058.871		1848.832	770.899	-			32.608	13.484		30.011	11.795	+			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.4613	Power	0.000		Power-50%	0.000		P-value	0.6132		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.5189	Power	0.000		Power-50%	0.000		P-value	0.3797		

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

Table D-87, Page 9. December 21, 1994

Littorina spp. - abundance (#/m^2)										Littorina spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	3351.667	783.519	5	2952.000	892.409	+	0.8914	6	72.027	23.078	5	195.872	84.421	-	0.1578		
31252C/31248	1	6	680.000	137.937	6	573.333	149.034	+	0.7610	6	49.232	12.699	6	36.437	6.253	-	0.6924		
31252C/31252	1	6	680.000	137.937	6	1453.333	583.625	-	0.4257	6	49.232	12.699	6	46.712	13.964	-	0.7200		
99826C/33141	1	6	1418.333	446.015	6	3014.217	1398.450	-	0.8550	6	138.253	35.465	6	257.586	163.206	-	0.4138		
Habitat Means			1532.500	376.352		1998.221	755.880	-			77.186	20.985		134.152	66.961	-			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.5440	Power	0.000		Power-50%	0.000		P-value	0.2669		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.4817	Power	0.000		Power-50%	0.000		P-value	0.1878		
30196C/30196	2	6	2476.667	1197.421	6	4036.667	792.514	-	0.1442	6	44.048	29.565	6	115.482	41.514	-	0.1191		
31252C/31248	2	6	2010.000	534.185	6	1396.667	293.958	+	0.3551	6	106.567	19.598	6	51.948	12.758	+	0.0352		
31252C/31252	2	6	2010.000	534.185	6	3928.333	1367.522	-	0.3089	6	106.567	19.598	6	39.730	5.646	+	0.0030		
99826C/33141	2	6	1408.333	451.091	6	281.100	159.111	+	0.0387	6	73.417	23.921	6	13.941	5.899	+	0.0808		
Habitat Means			1976.250	679.221		2410.692	653.276	+			82.650	23.171		55.275	16.454	+			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.1588	Power	---		Power-50%	---		P-value	0.0006		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.8306	Power	0.000		Power-50%	0.000		P-value	0.1802		
30196C/30196	3	5	1438.000	1400.555	6	813.333	682.259	+	0.9806	5	15.656	15.601	6	7.715	6.495	+	0.4948		
31252C/31248	3	6	2738.333	888.029	5	1602.000	711.944	+	0.3065	6	57.313	12.426	5	64.268	32.039	-	0.5162		
31252C/31252	3	6	2738.333	888.029	6	4873.333	1628.583	-	0.2170	6	57.313	12.426	6	45.490	6.574	+	0.8473		
99826C/33141	3	1	10.000	--	5	106.660	60.811	-	0.9000	1	0.150	--	5	2.571	2.071	-	0.9000		
Habitat Means			1731.167	1058.871		1848.832	770.899	-			32.608	13.484		30.011	11.795	+			
Fisher's	Power		0.000		Power-50%	0.000		P-value	0.4613	Power	0.000		Power-50%	0.000		P-value	0.6132		
Stouffer's	Power		0.000		Power-50%	0.000		P-value	0.5189	Power	0.000		Power-50%	0.000		P-value	0.3797		

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

Table D-87, Page 10. December 21, 1994

Table D-87. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Littorina sitkana - abundance (#/m^2)										Littorina sitkana - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	3351.667	783.519	5	2952.000	892.409	+	0.8919	6	72.027	23.078	5	195.872	84.421	-	0.1578		
31252C/31248	1	6	680.000	137.937	6	573.333	149.034	-	0.7620	6	49.232	12.699	6	36.437	6.253	+	0.6924		
31252C/31252	1	6	680.000	137.937	6	1453.333	583.625	-	0.4277	6	49.232	12.699	6	46.712	13.964	+	0.7200		
99826C/33141	1	6	1418.333	446.015	6	2960.333	1401.020	-	0.9208	6	138.253	35.465	6	255.975	163.268	-	0.3985		
Habitat Means			1532.500	376.352		1984.750	756.522	-			77.186	20.985		133.749	66.977	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.5609		Power	0.000		Power-50%	0.000	P-value	0.2617			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.4842		Power	0.000		Power-50%	0.000	P-value	0.1873			
30196C/30196	2	6	2476.667	1197.421	6	4036.667	792.514	-	0.1442	6	44.048	29.565	6	115.482	41.514	-	0.1291		
31252C/31248	2	6	2008.333	533.850	6	1396.667	293.958	+	0.3557	6	106.567	19.598	6	51.948	12.758	-	0.0352		
31252C/31252	2	6	2008.333	533.850	6	3926.667	1367.666	-	0.3086	6	106.567	19.598	6	39.723	5.648	-	0.0030		
99826C/33141	2	6	1406.667	450.797	6	249.433	129.742	+	0.0344	6	73.213	23.922	6	13.157	5.293	-	0.0781		
Habitat Means			1975.000	678.980		2402.359	645.970	+			82.599	23.171		55.078	16.303	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1484	y	Power	---		Power-50%	---	P-value	0.0005			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.8299		Power	0.000		Power-50%	0.000	P-value	0.1799			
30196C/30196	3	5	1436.000	1398.555	6	813.333	682.259	+	0.9804	5	15.590	15.535	6	7.715	6.495	+	0.4945		
31252C/31248	3	6	2725.000	883.832	5	1602.000	711.944	+	0.3080	6	57.157	12.380	5	64.268	32.039	-	0.5176		
31252C/31252	3	6	2725.000	883.832	6	4838.333	1628.581	-	0.2195	6	57.157	12.380	6	45.383	6.548	+	0.8470		
99826C/33141	3	1	10.000	--	5	96.000	64.000	-	0.9000	1	0.150	--	5	2.475	2.098	-	0.9000		
Habitat Means			1724.000	1055.406		1837.417	771.696	-			32.514	13.432		29.960	11.795	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.4635		Power	0.000		Power-50%	0.000	P-value	0.6128			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.5193		Power	0.000		Power-50%	0.000	P-value	0.3791			

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

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

z Only one site pair.

Table D-87, Page 11, December 21, 1994

Littorina scutulata - abundance (#/m^2)										Littorina scutulata - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	53.883	18.185	-	0.0053	6	0.000	0.000	6	1.611	0.745	-	0.0045		
Habitat Means			0.000	0.000		13.471	4.546	-			0.000	0.000		0.403	0.186	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0420	Power	---			Power-50%	---		P-value	0.0376	
Stouffer's	Power	0.000			Power-50%	---		P-value	0.4191	Power	0.000			Power-50%	---		P-value	0.4176	
30196C/30196	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	2	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	-	0.3632		
31252C/31252	2	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.000	0.000	6	0.007	0.007	-	0.4155		
99826C/33141	2	6	1.667	1.667	6	31.667	31.667	-	0.6317	6	0.203	0.203	6	0.783	0.783	-	0.9053		
Habitat Means			1.250	1.250		8.334	8.334	+			0.051	0.051		0.198	0.198	-			
Fisher's	Power	---			Power-50%	---		P-value	0.5427 y	Power	---			Power-50%	---		P-value	0.5897	
Stouffer's	Power	---			Power-50%	---		P-value	0.3484	Power	---			Power-50%	---		P-value	0.5499	
30196C/30196	3	5	2.000	2.000	6	0.000	0.000	+	0.3739	5	0.066	0.066	6	0.000	0.000	+	0.3739		
31252C/31248	3	6	13.333	7.149	5	0.000	0.000	-	0.0823	6	0.157	0.101	5	0.000	0.000	+	0.1582		
31252C/31252	3	6	13.333	7.149	6	35.000	25.788	-	0.8182	6	0.157	0.101	6	0.07	0.075	+	0.9313		
99826C/33141	3	1	0.000	--	5	10.660	10.660	-	0.9000	1	0.000	--	5	0.096	0.096	-	0.9000		
Habitat Means			7.167	5.433		11.415	9.112	+			0.095	0.089		0.051	0.043	+			
Fisher's	Power	0.511			Power-50%	0.520		P-value	0.1520 y	Power	0.104			Power-50%	0.055		P-value	0.1932	
Stouffer's	Power	---			Power-50%	0.565		P-value	0.0754	Power	---			Power-50%	---		P-value	0.0812	

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

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

z Only one site pair.

Table D-87, Page 12, December 21, 1994

Table D-87. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Mytilus edulis - abundance (#/m ²)											Mytilus edulis - biomass (g/m ²)										
Site Pair	MVD	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P			
30196C/30196	1	6	893.333	789.281	5	72.000	30.887	+	0.4150		6	10.035	4.861	5	4.540	3.112	+	0.6579			
31252C/31248	-	6	8.333	6.540	6	40.000	25.820	-	0.6737		6	0.577	0.569	6	10.263	8.179	-	0.5631			
31252C/31252	-	6	8.333	6.540	6	23.333	23.333	-	0.8871		6	0.577	0.569	6	1.228	1.228	-	0.8375			
99826C/33141	1	6	305.000	148.879	6	321.000	268.960	-	0.0958		6	30.647	17.670	6	35.150	31.463	-	0.0653			
Habitat Means			303.750	237.810		114.083	87.250	-				10.459	5.917		12.795	10.996	-				
Fisher's		Power	0.629		Power-50%	0.064	P-value	0.2417 y			Power	0.565		Power-50%	0.018	P-value	0.1549				
Stouffer's		Power	0.493		Power-50%	0.192	P-value	0.6132			Power	0.560		Power-50%	0.117	P-value	0.4517				
30196C/30196	2	6	61.667	25.874	6	226.667	116.438	-	0.3089		6	1.350	1.209	6	23.555	17.678	-	0.1739			
31252C/31248	2	6	496.667	170.503	6	118.333	32.498	-	0.6409		6	76.463	20.851	6	34.257	20.179	+	0.9851			
31252C/31252	2	6	496.667	170.503	6	1898.333	1159.866	-	0.8498		6	76.463	20.851	6	138.152	88.423	-	0.5011			
99826C/33141	2	6	990.000	328.370	6	414.433	167.786	-	0.2475		6	2659.643	1430.443	6	30.407	22.940	+	0.0081			
Habitat Means			511.250	173.813		664.442	369.147	+				703.480	368.339		56.593	37.305	+				
Fisher's		Power	0.006		Power-50%	0.050	P-value	0.4436 y			Power	0.002		Power-50%	0.011	P-value	0.1054				
Stouffer's		Power	0.091		Power-50%	0.344	P-value	0.7207			Power	0.070		Power-50%	0.231	P-value	0.8714				
30196C/30196	3	5	74.000	74.000	6	20.000	12.383	+	0.5346		5	9.584	9.584	6	1.830	1.820	+	0.9443			
31252C/31248	3	6	746.667	163.782	5	534.000	374.761	+	0.0951		6	149.668	126.874	5	37.354	26.325	+	0.2956			
31252C/31252	3	6	746.667	163.782	6	5980.000	2460.047	-	0.0168		6	149.668	126.874	6	196.653	83.529	-	0.1570			
99826C/33141	3	1	3570.000	--	5	2280.000	1431.537	+	0.9000		1	17408.559	--	5	508.377	331.921	+	0.9000			
Habitat Means			1284.334	133.855		2203.500	1069.682	+				4429.370	87.777		186.054	110.899	+				
Fisher's		Power	0.139		Power-50%	0.114	P-value	0.2417 _{xy}			Power	0.014		Power-50%	0.004	P-value	0.5275				
Stouffer's		Power	0.337		Power-50%	0.229	P-value	0.3315			Power	0.073		Power-50%	0.023	P-value	0.4806				

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

z: Only one site pair.

Turtonia minuta - abundance (#/m ²)											Turtonia minuta - biomass (g/m ²)										
Site Pair	MVD	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P			
30196C/30196	1	6	10.000	6.325	5	16.000	16.000	-	0.8188		6	0.017	0.011	5	0.032	0.032	-	0.8291			
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000			
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000			
99826C/33141	1	6	125.000	97.630	6	289.333	284.146	-	0.9163		6	0.252	0.210	6	0.547	0.525	-	0.8813			
Habitat Means			33.750	25.989		76.333	75.037	-				0.067	0.055		0.145	0.139	-				
Fisher's		Power	0.006		Power-50%	0.024	P-value	0.6338			Power	0.002		Power-50%	0.012	P-value	0.6279				
Stouffer's		Power	0.027		Power-50%	0.029	P-value	0.4239			Power	0.012		Power-50%	0.019	P-value	0.4268				
30196C/30196	2	6	720.000	339.951	6	2115.000	1294.330	-	0.6105		6	0.688	0.405	6	4.027	2.473	-	0.4021			
31252C/31248	2	6	15.000	15.000	6	3.333	3.333	+	0.8689		6	0.013	0.013	6	0.008	0.008	+	0.9602			
31252C/31252	2	6	15.000	15.000	6	98.333	98.333	-	0.8332		6	0.013	0.013	6	0.117	0.117	-	0.8161			
99826C/33141	2	6	303.333	162.617	6	25.000	15.438	+	0.2517		6	0.498	0.307	6	0.035	0.031	+	0.0973			
Habitat Means			263.333	133.142		560.417	352.859	+				0.303	0.185		1.047	0.657	+				
Fisher's		Power	0.075		Power-50%	0.464	P-value	0.4716 y			Power	0.023		Power-50%	0.437	P-value	0.3413 y				
Stouffer's		Power	0.055		Power-50%	0.492	P-value	0.6271			Power	0.024		Power-50%	0.465	P-value	0.7301				
30196C/30196	3	5	384.000	162.130	6	2560.000	1077.383	-	0.0214		5	0.316	0.091	6	2.780	1.396	-	0.0118			
31252C/31248	3	6	0.000	0.000	5	20.000	11.402	-	0.0810		6	0.000	0.000	5	0.016	0.012	-	0.1548			
31252C/31252	3	6	0.000	0.000	6	98.333	73.276	-	0.0142		6	0.000	0.000	6	0.115	0.089	-	0.0693			
99826C/33141	3	1	20.000	--	5	29.320	12.214	-	0.9000		1	0.001	--	5	0.093	0.084	-	0.9000			
Habitat Means			101.000	54.043		676.913	293.569	-				0.079	0.030		0.751	0.395	-				
Fisher's		Power	---		Power-50%	---	P-value	0.0007			Power	---		Power-50%	---	P-value	0.0026				
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0002			Power	---		Power-50%	---	P-value	0.0004				

y Direction of difference between habitat means is different from direction of overall tests.
z Only one site pair.

Table D-87, Page 15, December 21, 1994

y Direction of difference between habitat means is different from direction of overall tests.
z Only one site pair.

Table D-87, Page 14, December 21, 1994

Table D-87. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Pagurus spp. - abundance (#/m ²)										Pagurus spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	3.333	3.333	5	0.000	0.000	+	0.3632	6	0.530	0.530	5	0.000	0.000	-	0.3632		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.833	0.833		0.000	0.000	+			0.133	0.133		0.000	0.000	+			
Fisher's	Power		---		Power-50%	---	P-value	0.4765		Power	---		Power-50%	---	P-value	0.4765			
Stouffer's	Power		---		Power-50%	---	P-value	0.2319		Power	---		Power-50%	---	P-value	0.2319			
30196C/30196	2	6	6.667	4.944	6	11.667	6.540	-	0.5701	6	0.632	0.602	6	3.553	2.565	-	0.4226		
31252C/31248	2	6	0.000	0.000	6	10.000	6.325	-	0.1747	6	0.000	0.000	6	0.503	0.345	-	0.1753		
31252C/31252	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.600	0.600	-	0.3632		
99826C/33141	2	6	193.333	163.883	6	1.667	1.667	+	0.0179	6	8.540	3.468	6	0.083	0.083	+	0.0072		
Habitat Means			50.000	42.207		6.250	4.050	-			2.293	1.018		1.185	0.898	-			
Fisher's	Power		0.714		Power-50%	0.012	P-value	0.2124xy		Power	0.694		Power-50%	0.004	P-value	0.1802xy			
Stouffer's	Power		0.358		Power-50%	0.044	P-value	0.1071		Power	---		Power-50%	---	P-value	0.0798			
30196C/30196	3	5	12.000	4.899	6	6.667	4.216	+	0.2364	5	2.992	2.031	6	4.135	3.760	-	0.3238		
31252C/31248	3	6	3.333	2.108	5	16.000	11.662	-	0.5354	6	0.083	0.076	5	0.686	0.423	-	0.5280		
31252C/31252	3	6	3.333	2.108	6	3.333	2.108	o	1.0000	6	0.083	0.076	6	0.153	0.098	-	0.8167		
99826C/33141	3	-	20.000	--	5	0.000	0.000	-	1.0000	1	0.660	--	5	0.000	0.000	-	1.0000		
Habitat Means			9.666	3.038		6.500	4.497	-			0.955	0.728		1.244	1.070	-			
Fisher's	Power		0.004		Power-50%	0.621	P-value	0.4667		Power	0.488		Power-50%	0.092	P-value	0.3032			
Stouffer's	Power		0.000		Power-50%	0.539	P-value	0.2531		Power	0.637		Power-50%	0.145	P-value	0.1206			

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

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

z Only one site pair.

Table 0 87, Page 15, December 21, 1994

Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	1.667	1.667	5	0.000	0.000	-	0.3632	6	0.718	0.718	5	0.000	0.000	+	0.3632		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	3.333	2.108	6	0.000	0.000	-	0.1747	6	3.003	1.905	6	0.000	0.000	+	0.1747		
Habitat Means			1.250	0.944		0.000	0.000	+			0.930	0.656		0.000	0.000	+			
Fisher's	Power		0.721		Power-50%	0.559	P-value	0.1983		Power	0.989		Power-50%	0.628	P-value	0.1983			
Stouffer's	Power		0.721		Power-50%	0.559	P-value	0.2027		Power	0.946		Power-50%	0.530	P-value	0.2027			
30196C/30196	2	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	2.995	2.995	6	3.378	3.378	-	0.9933		
31252C/31248	2	6	3.333	2.108	6	6.667	4.944	-	0.8349	6	1.698	1.074	6	3.332	2.110	-	0.9342		
31252C/31252	2	6	3.333	2.108	6	20.000	14.376	-	0.3821	6	1.698	1.074	6	25.363	19.700	-	0.4539		
99826C/33141	2	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	6.733	6.733	6	0.000	0.000	+	0.3632		
Habitat Means			2.500	1.888		7.084	5.247	-			3.281	2.969		8.018	6.297	-			
Fisher's	Power		0.053		Power-50%	0.967	P-value	0.5535		Power	0.143		Power-50%	0.980	P-value	0.6149			
Stouffer's	Power		0.005		Power-50%	0.977	P-value	0.3660		Power	0.198		Power-50%	0.956	P-value	0.4029			
30196C/30196	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	3	6	18.333	11.377	5	12.000	8.000	+	0.7808	6	8.068	4.573	5	10.578	6.576	-	0.8465		
31252C/31252	3	6	18.333	11.377	6	25.000	15.221	-	0.9171	6	8.068	4.573	6	15.632	14.918	-	0.8870		
99826C/33141	3	1	0.000	--	5	0.000	0.000	o	1.0000	1	0.000	--	5	0.000	0.000	o	1.0000		
Habitat Means			9.166	7.585		9.250	5.805	+			4.034	3.049		6.553	5.374	-			
Fisher's	Power		0.006		Power-50%	0.143	P-value	0.6606y		Power	0.014		Power-50%	0.139	P-value	0.6340			
Stouffer's	Power		0.008		Power-50%	0.172	P-value	0.4631		Power	0.000		Power-50%	0.013	P-value	0.4440			

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

Table D-87, Page 16, December 21, 1994

Table D-87, Page 16, December 21, 1994

Table D-87. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Nucella lima - abundance (#/m^2)										Nucella lima - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	3.333	2.108	6	0.000	0.000	+	0.1747	6	3.003	1.905	6	0.000	0.000	+	0.1747		
Habitat Means			0.833	0.527		0.000	0.000	+			0.751	0.476		0.000	0.000	+			
Fisher's		Power	0.279		Power-50%	0.130	P-value	0.3394		Power	0.360		Power-50%	0.152	P-value	0.3394			
Stouffer's		Power	0.000		Power-50%	0.037	P-value	0.4604		Power	0.000		Power-50%	0.000	P-value	0.4604			
30196C/30196	2	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	2.995	2.995	6	3.378	3.378	-	0.9933		
31252C/31248	2	6	3.333	2.108	6	6.667	4.944	-	0.8349	6	1.698	1.074	6	3.332	2.110	-	0.9342		
31252C/31252	2	6	3.333	2.108	6	20.000	14.376	-	0.3821	6	1.698	1.074	6	25.363	19.700	-	0.4539		
99826C/33141	2	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	6.733	6.733	6	0.000	0.000	-	0.3632		
Habitat Means			2.500	1.888		7.084	5.247	-			3.281	2.969		8.018	6.297	-			
Fisher's		Power	0.059		Power-50%	0.969	P-value	0.5535		Power	0.144		Power-50%	0.976	P-value	0.6149			
Stouffer's		Power	0.005		Power-50%	0.981	P-value	0.3660		Power	0.198		Power-50%	0.954	P-value	0.4029			
30196C/30196	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	3	6	16.667	11.155	5	8.000	4.899	+	0.7198	6	8.043	4.561	5	10.486	6.508	-	0.8460		
31252C/31252	3	6	16.667	11.155	6	13.333	9.888	+	0.7028	6	8.043	4.561	6	15.323	14.776	-	0.6264		
99826C/33141	3	1	0.000	--	5	0.000	0.000	o	1.0000	1	0.000	--	5	0.000	0.000	o	1.0000		
Habitat Means			8.334	7.437		5.333	3.697	+			4.022	3.041		6.452	5.321	-			
Fisher's		Power	0.004		Power-50%	0.099	P-value	0.5466		Power	0.063		Power-50%	0.099	P-value	0.5567			
Stouffer's		Power	0.002		Power-50%	0.147	P-value	0.3808		Power	0.005		Power-50%	0.005	P-value	0.3959			

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

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

z Only one site pair.

Table G-47. Page 17. December 21, 1994

Nucella lamellosa - abundance (#/m^2)										Nucella lamellosa - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	1.000	1.000	5	0.000	0.000	+	0.3032	6	0.718	0.718	5	0.000	0.000	-	0.3032		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.417	0.417		0.000	0.000	+			0.180	0.180		0.000	0.000	-			
Fisher's		Power	---		Power-50%	---	P-value	0.4765		Power	---		Power-50%	---	P-value	0.4765			
Stouffer's		Power	---		Power-50%	---	P-value	0.2319		Power	---		Power-50%	---	P-value	0.2319			
30196C/30196	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
30196C/30196	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	3	6	0.000	0.000	5	4.000	4.000	-	0.3739	6	0.000	0.000	5	0.092	0.092	-	0.3739		
31252C/31252	3	6	0.000	0.000	6	5.000	5.000	-	0.3632	6	0.000	0.000	6	0.168	0.168	-	0.3632		
99826C/33141	3	1	0.000	--	5	0.000	0.000	o	1.0000	1	0.000	--	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		2.250	2.250	-			0.000	0.000		0.065	0.065	-			
Fisher's		Power	---		Power-50%	---	P-value	0.2989		Power	---		Power-50%	---	P-value	0.2989			
Stouffer's		Power	---		Power-50%	---	P-value	0.2298		Power	---		Power-50%	---	P-value	0.2298			

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

Table D-87, Page 17, December 21, 1994

Nucella lamellosa - abundance (#/m^2)										Nucella lamellosa - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	1.000	1.000	5	0.000	0.000	+	0.3032	6	0.718	0.718	5	0.000	0.000	-	0.3032		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.417	0.417		0.000	0.000	+			0.180	0.180		0.000	0.000	-			
Fisher's		Power	---		Power-50%	---	P-value	0.4765		Power	---		Power-50%	---	P-value	0.4765			
Stouffer's		Power	---		Power-50%	---	P-value	0.2319		Power	---		Power-50%	---	P-value	0.2319			
30196C/30196	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
30196C/30196	3	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	3	6	0.000	0.000	5	4.000	4.000	-	0.3739	6	0.000	0.000	5	0.092	0.092	-	0.3739		
31252C/31252	3	6	0.000	0.000	6	5.000	5.000	-	0.3632	6	0.000	0.000	6	0.168	0.168	-	0.3632		
99826C/33141	3	1	0.000	--	5	0.000	0.000	o	1.0000	1	0.000	--	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		2.250	2.250	-			0.000	0.000		0.065	0.065	-			
Fisher's		Power	---		Power-50%	---	P-value	0.2989		Power	---		Power-50%	---	P-value	0.2989			
Stouffer's		Power	---		Power-50%	---	P-value	0.2298		Power	---		Power-50%	---	P-value	0.2298			

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

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Table D-87. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	1.667	1.667	5	0.000	0.000	-	0.3632	6	0.052	0.052	5	0.000	0.000	-	0.3632
31252C/31248	1	6	6.667	6.667	6	0.000	0.000	-	0.3632	6	0.043	0.043	6	0.000	0.000	-	0.3632
31252C/31252	1	6	6.667	6.667	6	0.000	0.000	-	0.3632	6	0.043	0.043	6	0.000	0.000	-	0.3632
99826C/33141	1	6	25.000	25.000	6	0.000	0.000	+	0.3632	6	0.205	0.205	6	0.000	0.000	-	0.3632
Habitat Means			10.000	10.000		0.000	0.000	+			0.086	0.086		0.000	0.000	-	
Fisher's	Power	---			Power-50%	---		P-value	0.0914	Power	---		Power-50%	---		P-value	0.0914
Stouffer's	Power	---			Power-50%	---		P-value	0.0608	Power	---		Power-50%	---		P-value	0.0608
30196C/30196	2	6	170.000	123.935	6	10.000	8.165	+	0.0663	6	0.993	0.741	6	0.088	0.088	+	0.0411
31252C/31248	2	6	13.333	6.667	6	0.000	0.000	+	0.1340	6	0.055	0.055	6	0.000	0.000	+	0.4464
31252C/31252	2	6	13.333	6.667	6	16.667	16.667	-	0.4230	6	0.055	0.055	6	0.327	0.327	-	0.9109
99826C/33141	2	6	28.333	24.415	6	12.217	8.457	-	0.8740	6	0.169	0.168	6	0.007	0.004	+	0.8865
Habitat Means			56.250	40.421		9.721	8.322	-			0.318	0.255		0.106	0.105	+	
Fisher's	Power	---			Power-50%	---		P-value	0.0731	Power	---		Power-50%	---		P-value	0.0925
Stouffer's	Power	---			Power-50%	---	0.610	P-value	0.0283	Power	---		Power-50%	---		P-value	0.0243
30196C/30196	3	5	832.000	256.581	6	286.667	92.868	+	0.8914	5	4.504	1.341	6	2.468	0.765	-	0.7143
31252C/31248	3	6	6.667	2.108	5	24.000	16.000	-	0.9832	6	0.143	0.094	5	0.180	0.148	-	0.9307
31252C/31252	3	6	6.667	2.108	6	31.667	10.462	-	0.1377	6	0.143	0.094	6	0.079	0.055	-	0.8550
99826C/33141	3	1	0.000	--	5	8.000	8.000	-	0.9000	1	0.000	--	5	0.096	0.096	-	0.9000
Habitat Means			211.334	86.932		87.584	31.833	-			1.198	0.510		0.706	0.266	+	
Fisher's	Power	0.170			Power-50%	0.519		P-value	0.2981	Power	0.003		Power-50%	0.048		P-value	0.6241
Stouffer's	Power	0.076			Power-50%	0.638		P-value	0.3303	Power	0.000		Power-50%	0.180		P-value	0.3783

y. Direction of difference between habitat means is different than direction of overall tests.
z. Only one site pair.

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	23.333	16.055	5	0.000	0.000	-	0.0899	6	5.097	4.600	5	0.000	0.000	-	0.1134
31252C/31248	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.002	0.002	6	0.000	0.000	-	0.3632
31252C/31252	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.002	0.002	6	0.000	0.000	+	0.3632
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			6.667	4.847		0.000	0.000	+			1.275	1.151		0.000	0.000	+	
Fisher's	Power	---			Power-50%	---		P-value	0.0716	Power	---		Power-50%	---		P-value	0.0831
Stouffer's	Power	---			Power-50%	---	0.319	P-value	0.0172	Power	---		Power-50%	---		P-value	0.0214
30196C/30196	2	6	725.000	619.644	6	31.667	29.712	-	0.1015	6	5.512	4.420	6	0.125	0.125	+	0.0395
31252C/31248	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
31252C/31252	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
99826C/33141	2	6	3.333	3.333	6	0.000	0.000	-	0.3632	6	0.001	0.001	6	0.000	0.000	-	0.3632
Habitat Means			182.083	155.744		7.917	7.428	+			1.378	1.105		0.031	0.031	-	
Fisher's	Power	0.002			Power-50%	0.001		P-value	0.1448	Power	---		Power-50%	---		P-value	0.0809
Stouffer's	Power	---			Power-50%	0.002		P-value	0.0828	Power	---		Power-50%	---		P-value	0.0422
30196C/30196	3	5	1436.000	580.763	6	356.667	128.832	+	0.3560	5	11.792	3.435	6	7.772	2.605	+	0.8745
31252C/31248	3	6	5.000	2.236	5	6.000	6.000	-	0.5652	6	0.010	0.010	5	0.004	0.004	-	0.8227
31252C/31252	3	6	5.000	2.236	6	23.333	14.757	-	0.5785	6	0.010	0.010	6	0.013	0.010	-	0.6694
99826C/33141	3	1	380.000	--	5	12.000	12.000	+	0.9000	1	8.870	--	5	0.012	0.012	+	0.9000
Habitat Means			456.500	195.078		99.500	40.397	+			5.171	1.152		1.950	0.658	+	
Fisher's	Power	0.000			Power-50%	0.064		P-value	0.6030	Power	0.000		Power-50%	0.013		P-value	0.6648
Stouffer's	Power	0.000			Power-50%	0.103		P-value	0.3873	Power	0.000		Power-50%	0.001		P-value	0.4648

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y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-87, Page 19, December 21, 1994

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	23.333	16.055	5	0.000	0.000	+	0.0899	6	5.097	4.600	5	0.000	0.000	-	0.1134
31252C/31248	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.002	0.002	6	0.000	0.000	-	0.3632
31252C/31252	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.002	0.002	6	0.000	0.000	+	0.3632
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			6.667	4.847		0.000	0.000				1.275	1.151		0.000	0.000		
Fisher's	Power	---			Power-50%	---		P-value	0.0716	Power	---		Power-50%	---		P-value	0.0831
Stouffer's	Power	---			Power-50%	---	0.319	P-value	0.0172	Power	---		Power-50%	---		P-value	0.0214
30196C/30196	2	6	725.000	619.644	6	31.667	29.712	+	0.1015	6	5.512	4.420	6	0.125	0.125	+	0.0395
31252C/31248	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
31252C/31252	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
99826C/33141	2	6	3.333	3.333	6	0.000	0.000	-	0.3632	6	0.001	0.001	6	0.000	0.000	-	0.3632
Habitat Means			182.083	155.744		7.917	7.428	+			1.378	1.105		0.031	0.031	-	
Fisher's	Power	0.002			Power-50%	0.001		P-value	0.1448	Power	---		Power-50%	---		P-value	0.0809
Stouffer's	Power	---			Power-50%	0.002		P-value	0.0828	Power	---		Power-50%	---		P-value	0.0422
30196C/30196	3	5	1436.000	580.763	6	356.667	128.832	+	0.3560	5	11.792	3.435	6	7.772	2.605	+	0.8745
31252C/31248	3	6	5.000	2.236	5	6.000	6.000	-	0.5652	6	0.010	0.010	5	0.004	0.004	-	0.8227
31252C/31252	3	6	5.000	2.236	6	23.333	14.757	-	0.5785	6	0.010	0.010	6	0.013	0.010	-	0.6694
99826C/33141	3	1	380.000	--	5	12.000	12.000	+	0.9000	1	8.870	--	5	0.012	0.012	+	0.9000
Habitat Means			456.500	195.078		99.500	40.397	+			5.171	1.152		1.950	0.658	+	
Fisher's	Power	0.000			Power-50%	0.064		P-value	0.6030	Power	0.000		Power-50%	0.013		P-value	0.6648
Stouffer's	Power	0.000			Power-50%	0.103		P-value	0.3873	Power	0.000		Power-50%	0.001		P-value	0.4648

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

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Table D-87. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Errant polychaetes - abundance (#/m^2)										Errant polychaetes - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	18.333	12.758	5	8.000	8.000	+	0.3446	6	0.132	0.113	5	0.026	0.026	-	0.4447
31252C/31248	1	6	5.000	3.416	6	1.667	1.667	+	0.5734	6	0.028	0.028	6	0.000	0.000	-	0.4701
31252C/31252	1	6	5.000	3.416	6	1.667	1.667	+	0.5734	6	0.028	0.028	6	0.010	0.010	-	0.8396
99826C/33141	1	6	0.000	0.000	6	103.333	103.333	-	0.2376	6	0.000	0.000	6	0.227	0.227	-	0.3123
Habitat Means			7.083	4.898		28.667	28.667	+			0.047	0.042		0.066	0.066		
Fisher's		Power	0.006		Power-50%	0.392	P-value	0.3623	y	Power	0.000		Power-50%	0.013	P-value	0.4356	y
Stouffer's		Power	0.000		Power-50%	0.500	P-value	0.1274		Power	0.004		Power-50%	0.110	P-value	0.1708	
30196C/30196	2	6	321.667	260.633	6	365.000	273.919	-	0.7568	6	1.412	1.063	6	0.953	0.682	-	0.4767
31252C/31248	2	6	40.000	25.430	6	0.000	0.000	+	0.0926	6	0.164	0.134	6	0.000	0.000	-	0.1624
31252C/31252	2	6	40.000	25.430	6	25.000	13.102	+	0.9605	6	0.164	0.134	6	0.065	0.035	-	0.8546
99826C/33141	2	6	243.333	195.834	6	490.550	261.700	-	0.2887	6	1.544	0.979	6	0.270	0.110	-	0.7603
Habitat Means			161.250	126.832		220.138	137.180	+			0.821	0.578		0.322	0.207	-	
Fisher's		Power	0.080		Power-50%	0.229	P-value	0.3530	y	Power	0.040		Power-50%	0.106	P-value	0.1737	
Stouffer's		Power	0.144		Power-50%	0.430	P-value	0.3169		Power	---		Power-50%	---	P-value	0.0943	
30196C/30196	3	5	112.000	304.095	6	1766.667	576.938	-	0.5233	5	15.098	9.429	6	27.706	15.812	-	0.6253
31252C/31248	3	6	51.667	14.004	5	96.000	52.688	-	0.5343	6	0.107	0.026	5	0.240	0.149	-	0.4573
31252C/31252	3	6	51.667	14.004	6	303.333	80.650	-	0.0007	6	0.107	0.026	6	0.675	0.243	-	0.0408
99826C/33141	3	1	30.000	--	5	1225.340	244.547	-	0.9000	1	0.001	--	5	1.409	0.628	-	0.9000
Habitat Means			311.334	110.701		847.835	238.706	-			3.828	3.160		7.508	4.208	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0036		Power	---		Power-50%	---	P-value	0.0662	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0215		Power	---		Power-50%	---	P-value	0.0695	

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

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Sedentary polychaetes - abundance (#/m^2)										Sedentary polychaetes - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	18.333	18.333	5	14.000	11.662	+	0.6647	6	0.028	0.028	5	0.002	0.002	-	0.7882
31252C/31248	1	6	6.667	6.667	6	21.667	15.147	-	0.4984	6	0.000	0.000	6	0.040	0.027	-	0.2052
31252C/31252	1	6	6.667	6.667	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632
99826C/33141	1	6	20.000	11.255	6	160.333	154.022	-	0.9902	6	0.030	0.020	6	0.227	0.227	-	0.8502
Habitat Means			12.917	10.731		49.000	45.208	-			0.015	0.012		0.067	0.064	-	
Fisher's		Power	0.210		Power-50%	0.518	P-value	0.4781	y	Power	0.002		Power-50%	0.091	P-value	0.4666	
Stouffer's		Power	0.117		Power-50%	0.617	P-value	0.3608		Power	0.000		Power-50%	0.119	P-value	0.4741	
30196C/30196	2	6	2313.333	1372.355	6	2765.000	2194.300	-	0.5796	6	3.750	3.052	6	2.155	1.640	+	0.7291
31252C/31248	2	6	43.333	29.963	6	1.667	1.667	-	0.1864	6	0.030	0.030	6	0.000	0.000	+	0.2592
31252C/31252	2	6	43.333	29.963	6	23.333	16.055	-	0.6599	6	0.030	0.030	6	0.000	0.000	+	0.3437
99826C/33141	2	6	653.333	521.099	6	188.333	133.302	-	0.5054	6	1.234	1.042	6	0.102	0.063	+	0.1774
Habitat Means			763.333	488.345		744.583	586.331	+			1.261	1.039		0.564	0.426	+	
Fisher's		Power	0.003		Power-50%	0.194	P-value	0.2381		Power	---		Power-50%	---	P-value	0.0703	
Stouffer's		Power	0.011		Power-50%	0.438	P-value	0.3532		Power	0.013		Power-50%	0.261	P-value	0.1071	
30196C/30196	3	5	1572.000	387.936	6	6358.333	1832.989	-	0.0407	5	18.144	15.130	6	8.240	2.674	+	0.6369
31252C/31248	3	6	216.667	201.091	5	10.000	7.746	+	0.6669	6	0.249	0.239	5	0.000	0.000	+	0.2478
31252C/31252	3	6	216.667	201.091	6	401.667	247.755	-	0.4541	6	0.249	0.239	6	0.509	0.432	-	0.7680
99826C/33141	3	1	40.000	--	5	4693.320	2859.809	-	0.9000	1	0.041	--	5	6.095	4.688	-	0.9000
Habitat Means			511.334	263.373		2865.830	1237.075	-			4.671	5.203		3.711	1.949	+	
Fisher's		Power	0.000		Power-50%	0.041	P-value	0.1064		Power	0.091		Power-50%	0.019	P-value	0.3745	
Stouffer's		Power	---		Power-50%	0.064	P-value	0.0423		Power	0.004		Power-50%	0.000	P-value	0.2103	

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

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Table D-87. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. June 1990. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	16.667	9.888	5	338.000	335.506	-	0.8477	6	0.000	0.000	5	0.250	0.250	-	0.4071		
31252C/31248	-	6	110.000	104.051	6	0.000	0.000	+	0.1176	6	0.025	0.025	6	0.000	0.000	+	0.2859		
31252C/31252	1	6	110.000	104.051	6	1.667	1.667	+	0.1892	6	0.025	0.025	6	0.000	0.000	+	0.3178		
99826C/33141	1	6	1211.667	750.131	6	2171.783	1540.555	-	0.8310	6	0.705	0.437	6	1.129	1.020	-	0.7664		
Habitat Means			362.084	242.030		627.863	469.432				0.189	0.122		0.345	0.318				
Fisher's		Power	0.011		Power-50%	0.313	P-value	0.1279		Power	0.004		Power-50%	0.228	P-value	0.3430			
Stouffer's		Power	0.022		Power-50%	0.481	P-value	0.1516		Power	0.014		Power-50%	0.290	P-value	0.4344			
30196C/30196	2	6	965.000	431.546	6	2581.667	1781.144	-	0.8702	6	0.615	0.269	6	2.748	2.237	-	0.5753		
31252C/31248	2	6	61.667	34.063	6	3.333	3.333	+	0.5565	6	0.038	0.038	6	0.000	0.000	+	0.3586		
31252C/31252	2	6	61.667	34.063	6	116.667	81.062	-	0.8513	6	0.038	0.038	6	0.022	0.018	+	0.8017		
99826C/33141	2	6	17461.666	17019.307	6	1532.217	692.727	-	0.7688	6	25.460	24.912	6	0.109	0.059	+	0.8921		
Habitat Means			4637.500	4389.745		1058.471	639.567				6.538	6.314		0.720	0.379				
Fisher's		Power	0.013		Power-50%	0.123	P-value	0.5669		Power	0.012		Power-50%	0.049	P-value	0.4777			
Stouffer's		Power	0.034		Power-50%	0.303	P-value	0.4610		Power	0.029		Power-50%	0.101	P-value	0.4693			
30196C/30196	3	5	1008.000	607.753	6	7185.000	3355.773	-	0.0178	5	3.062	2.178	6	13.430	4.958	-	0.0328		
31252C/31248	3	6	188.333	146.046	5	242.000	137.018	-	0.9985	6	0.270	0.268	5	0.196	0.094	+	0.4030		
31252C/31252	3	6	188.333	146.046	6	733.333	377.859	-	0.2337	6	0.270	0.268	6	0.565	0.406	-	0.3795		
99826C/33141	3	1	10.000	--	5	882.000	565.243	-	0.9000	1	0.001	--	5	0.078	0.048	-	0.9000		
Habitat Means			348.667	299.948		2260.583	1108.973				0.901	0.905		3.567	1.377				
Fisher's		Power	---		Power-50%	---	P-value	0.0331		Power	---		Power-50%	---	P-value	0.0930			
Stouffer's		Power	---		Power-50%	0.001	P-value	0.0095		Power	---		Power-50%	---	P-value	0.0492			

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

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

z Only one site pair.

Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	10970.000	2062.889	5	4652.000	1313.657	+	0.1020	6	991.839	309.802	5	414.157	81.587	+	0.0775		
31252C/31248	1	6	5815.000	1944.361	6	6858.333	2004.770	-	0.7733	6	427.884	110.767	6	533.915	146.109	-	0.7289		
31252C/31252	1	6	5815.000	1944.361	6	10163.333	2699.706	-	0.2340	6	427.884	110.767	6	648.314	178.322	-	0.4724		
99826C/33141	1	6	13310.000	3704.233	6	8643.767	3530.771	+	0.2022	6	1111.637	332.767	6	621.391	266.617	-	0.1146		
Habitat Means			8977.500	2413.961		7579.358	2387.226				739.811	216.026		554.444	168.159				
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1622		Power	---		Power-50%	---	P-value	0.0909			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1970		Power	0.000		Power-50%	0.000	P-value	0.1313			
30196C/30196	2	6	10553.333	4406.064	6	13685.000	5884.855	-	0.7660	6	766.416	659.511	6	474.766	187.496	+	0.2007		
31252C/31248	2	6	9133.333	2716.663	6	12113.333	5192.966	-	0.7770	6	702.773	187.437	6	1031.312	349.450	-	0.8258		
31252C/31252	2	6	9133.333	2716.663	6	24586.666	6769.946	-	0.1471	6	702.773	187.437	6	1141.461	192.625	-	0.4292		
99826C/33141	2	6	27916.666	17052.375	6	7288.833	2134.020	+	0.0554	6	3577.955	1254.759	6	171.298	146.566	+	0.0001		
Habitat Means			14184.166	6722.941		14418.458	4995.447				1437.479	572.286		704.709	219.034				
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.3351		Power	---		Power-50%	---	P-value	0.0011			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.2270		Power	0.000		Power-50%	0.000	P-value	0.1758			
30196C/30196	3	5	12112.000	2220.690	6	26658.334	4719.281	-	0.0167	5	774.540	515.819	6	423.791	37.248	-	0.9555		
31252C/31248	3	6	19881.666	5838.983	5	7634.000	3289.920	+	0.0683	6	1939.875	339.676	5	474.919	218.087	+	0.0222		
31252C/31252	3	6	19881.666	5838.983	6	32741.666	6605.826	-	0.1140	6	1939.875	339.676	6	1972.956	597.702	-	0.8879		
99826C/33141	3	1	4670.000	--	5	11161.221	3028.986	-	0.9000	1	17443.061	--	5	1444.226	973.579	+	0.9000		
Habitat Means			14136.333	4632.885		19548.805	4411.003				5524.338	398.390		1078.973	456.654				
Fisher's		Power	---		Power-50%	---	P-value	0.0305		Power	---		Power-50%	---	P-value	0.0708			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0494		Power	0.000		Power-50%	0.000	P-value	0.1201			

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

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

z Only one site pair.

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	16.667	9.888	5	338.000	335.506	-	0.8477	6	0.000	0.000	5	0.250	0.250	-	0.4071		
31252C/31248	-	6	110.000	104.051	6	0.000	0.000	+	0.1176	6	0.025	0.025	6	0.000	0.000	+	0.2859		
31252C/31252	1	6	110.000	104.051	6	1.667	1.667	+	0.1892	6	0.025	0.025	6	0.000	0.000	+	0.3178		
99826C/33141	1	6	1211.667	750.131	6	2171.783	1540.555	-	0.8310	6	0.705	0.437	6	1.129	1.020	-	0.7664		
Habitat Means			362.084	242.030		627.863	469.432				0.189	0.122		0.345	0.318				
Fisher's		Power	0.011		Power-50%	0.313	P-value	0.1279		Power	0.004		Power-50%	0.228	P-value	0.3430			
Stouffer's		Power	0.022		Power-50%	0.481	P-value	0.1516		Power	0.014		Power-50%	0.290	P-value	0.4344			
30196C/30196	2	6	965.000	431.546	6	2581.667	1781.144	-	0.8702	6	0.615	0.269	6	2.748	2.237	-	0.5753		
31252C/31248	2	6	61.667	34.063	6	3.333	3.333	+	0.5565	6	0.038	0.038	6	0.000	0.000	+	0.3586		
31252C/31252	2	6	61.667	34.063	6	116.667	81.062	-	0.8513	6	0.038	0.038	6	0.022	0.018	+	0.8017		
99826C/33141	2	6	17461.666	17019.307	6	1532.217	692.727	-	0.7688	6	25.460	24.912	6	0.109	0.059	+	0.8921		
Habitat Means			4637.500	4389.745		1058.471	639.567				6.538	6.314		0.720	0.379				
Fisher's		Power	0.013		Power-50%	0.123	P-value	0.5669		Power	0.012		Power-50%	0.049	P-value	0.4777			
Stouffer's		Power	0.034		Power-50%	0.303	P-value	0.4610		Power	0.029		Power-50%	0.101	P-value	0.4693			
30196C/30196	3	5	1008.000	607.753	6	7185.000	3355.773	-	0.0178	5	3.062	2.178	6	13.430	4.958	-	0.0328		
31252C/31248	3	6	188.333	146.046	5	242.000	137.018	-	0.9985	6	0.270	0.268	5	0.196	0.094	+	0.4030		
31252C/31252	3	6	188.333	146.046	6	733.333	377.859	-	0.2337	6	0.270	0.268	6	0.565	0.406	-	0.3795		
99826C/33141	3	1	10.000	--	5	882.000	565.243	-	0.9000	1	0.001	--	5	0.078	0.048	-	0.9000		
Habitat Means			348.667	299.948		2260.583	1108.973				0.901	0.905		3.567	1.377				
Fisher's		Power	---		Power-50%	---	P-value	0.0331		Power	---		Power-50%	---	P-value	0.0930			
Stouffer's		Power	---		Power-50%	0.001	P-value	0.0095		Power	---		Power-50%	---	P-value	0.0492			

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

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

z Only one site pair.

Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	10970.000	2062.889	5	4652.000	1313.657	+	0.1020	6	991.839	309.802	5	414.157	81.587	+	0.0775		
31252C/31248	1	6	5815.000	1944.361	6	6858.333	2004.770	-	0.7733	6	427.884	110.767	6	533.915	146.109	-	0.7289		
31252C/31252	1	6	5815.000	1944.361	6	10163.333	2699.706	-	0.2340	6	427.884	110.767	6	648.314	178.322	-	0.4724		
99826C/33141	1	6	13310.000	3704.233	6	8643.767	3530.771	+	0.2022	6	1111.637	332.767	6	621.391	266.617	-	0.1146		
Habitat Means			8977.500	2413.961		7579.358	2387.226				739.811	216.026		554.444	168.159				
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1622		Power	---		Power-50%	---	P-value	0.0909			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1970		Power	0.000		Power-50%	0.000	P-value	0.1313			
30196C/30196	2	6	10553.333	4406.064	6	13685.000	5884.855	-	0.7660	6	766.416	659.511	6	474.766	187.496	+	0.2007		
31252C/31248	2	6	9133.333	2716.663	6	12113.333	5192.966	-	0.7770	6	702.773	187.437	6	1031.312	349.450	-	0.8258		
31252C/31252	2	6	9133.333	2716.663	6	24586.666	6769.946	-	0.1471	6	702.773	187.437	6	1141.461	192.625	-	0		

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

Table D-87, Page 23. December 21, 1994

Table D-87, Page 24. December 21, 1994

Table D-88. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	10.000	4.472	6	16.667	9.888	-	0.7834	6	1.188	0.831	6	3.307	2.029	-	0.5824		
31252C/31248	1	6	53.333	17.826	6	66.667	28.480	-	0.5830	6	7.518	2.750	6	7.267	3.748	+	0.9478		
31252C/31252	1	6	53.333	17.826	6	55.000	19.279	-	0.9452	6	7.518	2.750	6	8.375	2.994	-	0.8237		
99826C/33141	1	6	88.333	17.013	6	21.667	9.804	-	0.0085	6	21.828	3.694	6	2.528	1.344	+	0.0001		
Habitat Means			51.250	14.284		40.000	16.863	-			9.513	2.506		5.369	2.529	+			
Fisher's		Power	0.271		Power-50%	0.494	P-value	0.6643 _{xy}		Power	---		Power-50%	---	P-value	0.0033			
Stouffer's		Power	0.207		Power-50%	0.691	P-value	0.3786		Power	0.004		Power-50%	0.766	P-value	0.5819			
30196C/30196	2	6	38.333	11.949	6	5.000	5.000	-	0.0165	6	6.200	2.420	6	1.575	1.575	+	0.0260		
31252C/31248	2	6	55.000	18.028	6	16.667	5.578	-	0.1343	6	5.527	1.960	6	2.940	1.854	+	0.1900		
31252C/31252	2	6	55.000	18.028	6	316.667	300.762	-	0.3891	6	5.527	1.960	6	10.223	7.963	-	0.3370		
99826C/33141	2	6	286.667	103.848	5	44.000	39.192	-	0.0014	6	49.457	18.936	5	4.854	4.608	+	0.0074		
Habitat Means			108.750	37.963		95.584	87.633	-			16.678	6.319		4.898	4.000	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0002		Power	---		Power-50%	---	P-value	0.0016			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0053		Power	---		Power-50%	---	P-value	0.0119			
30196C/30196	3	6	28.333	24.415	6	10.000	6.831	-	0.6658	6	1.928	1.792	6	1.550	1.392	+	0.8352		
31252C/31248	3	6	13.333	8.028	6	106.667	54.385	-	0.1591	6	1.128	0.968	6	7.557	3.319	-	0.1590		
31252C/31252	3	6	13.333	8.028	6	43.333	22.755	-	0.3644	6	1.128	0.968	6	3.340	1.611	-	0.2371		
99826C/33141	3	4	127.500	80.143	5	6.000	4.000	-	0.0716	4	20.847	14.435	5	0.954	0.762	+	0.1397		
Habitat Means			45.625	30.154		41.500	21.993	-			6.258	4.541		3.350	1.771	+			
Fisher's		Power	0.018		Power-50%	0.383	P-value	0.3075		Power	0.002		Power-50%	0.000	P-value	0.4851			
Stouffer's		Power	0.015		Power-50%	0.529	P-value	0.6921		Power	0.000		Power-50%	0.000	P-value	0.7894			

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

z: Only one site pair.

Lottia pelta - abundance (#/m ²)										Lottia pelta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
31252C/31248	1	6	13.333	9.888	6	6.667	6.667	+	0.5733	6	3.070	2.054	6	1.192	1.192	+	0.5366		
31252C/31252	1	6	13.333	9.888	6	3.333	2.108	+	0.6776	6	3.070	2.054	6	0.262	0.182	+	0.7329		
99826C/33141	1	6	1.667	1.667	6	10.000	6.325	-	0.3888	6	0.197	0.197	6	1.260	0.801	-	0.4728		
Habitat Means			7.083	5.361		5.833	4.302	-			1.584	1.076		0.747	0.587	-			
Fisher's		Power	0.591		Power-50%	0.427	P-value	0.2901 _y		Power	0.556		Power-50%	0.772	P-value	0.3178 _y			
Stouffer's		Power	0.314		Power-50%	0.540	P-value	0.2279		Power	0.206		Power-50%	0.269	P-value	0.2308 _y			
30196C/30196	2	6	18.333	4.773	6	0.000	0.000	+	0.0049	6	4.510	2.053	6	0.000	0.000	+	0.0051		
31252C/31248	2	6	23.333	12.019	6	6.667	3.333	+	0.3913	6	2.727	1.364	6	2.190	1.865	+	0.5417		
31252C/31252	2	6	23.333	12.019	6	13.333	8.028	+	0.5773	6	2.727	1.364	6	1.938	1.092	+	0.6121		
99826C/33141	2	6	200.000	85.127	5	44.000	39.192	+	0.0240	6	40.780	17.243	5	4.854	4.608	+	0.0117		
Habitat Means			66.250	28.485		16.000	12.638	+			12.686	5.506		2.246	1.891	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0008		Power	---		Power-50%	---	P-value	0.0007			
Stouffer's		Power	---		Power-50%	0.337	P-value	0.0012		Power	---		Power-50%	---	P-value	0.0018			
30196C/30196	3	6	3.333	3.333	6	6.667	4.216	-	0.6014	6	0.463	0.463	6	0.738	0.590	-	0.6057		
31252C/31248	3	6	5.000	5.000	6	31.667	12.758	-	0.0581	6	0.540	0.540	6	5.273	2.542	-	0.0594		
31252C/31252	3	6	5.000	5.000	6	36.667	18.379	-	0.0488	6	0.540	0.540	6	2.907	1.438	-	0.0777		
99826C/33141	3	4	57.500	27.801	5	4.000	4.000	+	0.0326	4	13.065	7.570	5	0.786	0.786	+	0.0429		
Habitat Means			17.708	10.284		19.750	9.838	-			3.652	2.278		2.426	1.339	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0307 _x		Power	---		Power-50%	---	P-value	0.0429 _{xy}			
Stouffer's		Power	---		Power-50%	0.560	P-value	0.0320		Power	---		Power-50%	---	P-value	0.0377			

y direction of difference between habitat means is different from direction of overall test.
z Only one site pair.

Table D-88, Page 1. December 21, 1994

Table D-88, Page 2. December 21, 1994

Table D-88. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Tectura persona - abundance (#/m^2)										Tectura persona - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.697	0.697	-	0.3632		
31252C/31248	1	6	35.000	12.315	6	55.000	21.564	-	0.8378	6	3.877	1.516	6	5.990	3.473	-	0.9605		
31252C/31252	1	6	35.000	12.315	6	40.000	17.701	-	0.9990	6	3.877	1.516	6	3.802	2.563	-	0.9525		
99826C/33141	1	6	75.000	16.482	6	8.333	6.540	+	0.0010	6	20.523	4.150	6	0.622	0.413	+	0.0054		
Habitat Means			36.250	10.278		26.250	11.868	-			7.069	1.796		3.278	1.787	-			
Fisher's		Power		0.908		Power-50%	0.089	P-value	0.5868 _{xy}	Power	0.880		Power-50%	0.068	P-value	0.6061 _{xy}			
Stouffer's		Power		0.779		Power-50%	0.123	P-value	0.2784	Power	0.709		Power-50%	0.015	P-value	0.2833			
30196C/30196	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	2	6	20.000	16.125	6	5.000	3.416	+	0.5100	6	1.932	1.737	6	0.212	0.145	+	0.5123		
31252C/31252	2	6	20.000	16.125	6	0.000	0.000	+	0.0990	6	1.932	1.737	6	0.000	0.000	+	0.0848		
99826C/33141	2	6	25.000	21.095	5	0.000	0.000	+	0.1032	6	2.503	2.166	5	0.000	0.000	+	0.0816		
Habitat Means			16.250	13.336		1.250	0.854	+			1.592	1.410		0.053	0.036	+			
Fisher's		Power	---			Power-50%	---	P-value	0.0415	Power	---		Power-50%	---	P-value	0.0319			
Stouffer's		Power		0.334		Power-50%	0.287	P-value	0.1549	Power	0.004		Power-50%	0.002	P-value	0.1472			
30196C/30196	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	3	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---			Power-50%	---	P-value	0.6980	Power	---		Power-50%	---	P-value	0.6980			
Stouffer's		Power	---			Power-50%	---	P-value	0.5000	Power	---		Power-50%	---	P-value	0.5000			

1. Location of Tectura persona - abundance (#/m^2) and Tectura persona - biomass (g/m^2) data.

2. Only one site pair.

Tectura scutum - abundance (#/m^2)										Tectura scutum - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.098	0.098	6	0.000	0.000	+	0.3632		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.417	0.417		0.000	0.000	+			0.025	0.025		0.000	0.000	-			
Fisher's		Power	---			Power-50%	---	P-value	0.4765	Power	---		Power-50%	---	P-value	0.4765			
Stouffer's		Power	---			Power-50%	---	P-value	0.2319	Power	---		Power-50%	---	P-value	0.2319			
30196C/30196	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	2	6	5.000	3.416	5	0.000	0.000	+	0.1784	6	0.838	0.531	5	0.000	0.000	-	0.1747		
Habitat Means			1.250	0.854		0.000	0.000	+			0.210	0.133		0.000	0.000	-			
Fisher's		Power	0.098			Power-50%	0.046	P-value	0.3429	Power	0.356		Power-50%	0.128	P-value	0.3394			
Stouffer's		Power	0.026			Power-50%	0.018	P-value	0.4608	Power	0.000		Power-50%	0.000	P-value	0.4604			
30196C/30196	3	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.812	0.812	-	0.3632		
31252C/31248	3	6	5.000	3.416	6	3.333	7.149	-	0.4814	6	0.582	0.440	6	1.298	0.762	-	0.5764		
31252C/31252	3	6	5.000	3.416	6	3.333	2.108	+	0.8914	6	0.582	0.440	6	0.320	0.208	-	0.9451		
99826C/33141	3	4	0.000	0.000	5	2.000	2.000	-	0.3739	4	0.000	0.000	5	0.168	0.168	-	0.3739		
Habitat Means			2.500	1.708		5.500	3.648	-			0.291	0.220		0.650	0.488	-			
Fisher's		Power	0.928			Power-50%	0.305	P-value	0.2136	Power	0.687		Power-50%	0.116	P-value	0.2296			
Stouffer's		Power	0.713			Power-50%	0.310	P-value	0.1406	Power	0.416		Power-50%	0.048	P-value	0.1506			

Table D-RR, Page 3, December 21, 1994

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

Table D-88. Page 3. December 31, 1994

Table D-88. Page 4. December 31, 1994

Table D-88. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Balanomorphs - abundance (#/m ²)										Balanomorphs - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	3733.333	980.563	6	1658.333	49.593	+	0.5708	6	264.013	109.675	6	221.787	35.589	+	0.7807		
31252C/31248	1	6	5993.333	4302.000	6	6315.000	12.915	-	0.9298	6	137.420	45.799	6	245.813	78.891	-	0.4761		
31252C/31252	1	6	5993.333	4302.000	6	6801.667	21.167	-	0.8249	6	137.420	45.799	6	350.880	54.555	-	0.1643		
99826C/33141	1	6	3780.000	1542.535	6	1897.217	59.749	+	0.6068	6	260.527	119.617	6	253.011	08.520	+	0.9605		
Habitat Means			4875.000	2781.775		4168.054	60.856	+			199.845	80.223		267.873	19.389	-			
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.5144	Power	0.000		Power-50%	0.000		P-value	0.2535		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.3541	Power	0.000		Power-50%	0.000		P-value	0.2738		
30196C/30196	2	6	4770.000	2447.829	6	1155.000	39.572	+	0.8734	6	352.050	195.223	6	301.900	07.025	+	0.8631		
31252C/31248	2	6	15030.000	6800.014	6	15353.333	34.990	-	0.5401	6	558.260	160.848	6	677.370	05.586	-	0.6823		
31252C/31252	2	6	15030.000	6800.014	6	19845.000	71.844	-	0.2166	6	558.260	160.848	6	787.872	88.256	-	0.4315		
99826C/33141	2	6	17506.666	6345.365	5	792.000	81.641	+	0.0010	6	1201.955	242.078	5	179.505	14.401	+	0.1747		
Habitat Means			13084.167	5598.306		9286.333	32.012	+			667.631	189.749		486.662	03.817	+			
Fisher's		Power	---		Power-50%	---		P-value	0.0234	Power	0.000		Power-50%	0.000		P-value	0.4456		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.6398	Power	0.000		Power-50%	0.000		P-value	0.5923		
30196C/30196	3	6	1476.667	1220.313	6	858.333	66.671	-	0.9747	6	115.333	88.628	6	228.598	92.775	-	0.9548		
31252C/31248	3	6	22728.334	5861.938	6	23775.000	12.652	-	0.4897	6	1315.908	208.261	6	1462.535	12.023	-	0.9599		
31252C/31252	3	6	22728.334	5861.938	6	26078.334	37.093	-	0.4822	6	1315.908	208.261	6	1074.842	95.331	-	0.3648		
99826C/33141	3	4	5937.500	1810.190	5	507.320	60.415	-	0.0228	4	151.500	45.070	5	23.534	14.795	-	0.1182		
Habitat Means			13217.709	3688.595		12804.747	79.208	-			724.662	137.555		697.377	78.731	-			
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.1750	Power	0.000		Power-50%	0.000		P-value	0.1668		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.6484	Power	0.000		Power-50%	0.000		P-value	0.3562		

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

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

z Only one site pair.

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	483.333	329.046	6	3.333	3.333	+	0.1388	6	4.127	2.955	6	0.043	0.043	+	0.1589		
31252C/31248	1	6	76.667	66.866	6	476.667	62.019	-	0.1196	6	0.888	0.730	6	6.505	5.171	-	0.1528		
31252C/31252	1	6	76.667	66.866	6	1236.667	99.542	-	0.0167	6	0.888	0.730	6	17.413	13.781	-	0.0187		
99826C/33141	1	6	0.000	0.000	6	115.000	79.572	-	0.1758	6	0.000	0.000	6	0.873	0.669	-	0.1765		
Habitat Means			159.167	115.695		457.917	61.117	-			1.476	1.104		6.209	4.916	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0096	Power	---		Power-50%	---		P-value	0.0124		
Stouffer's		Power	0.002		Power-50%	0.11		P-value	0.3130	Power	0.002		Power-50%	0.62		P-value	0.3189		
30196C/30196	2	6	646.667	395.758	6	0.000	0.000	+	0.0326	6	5.838	3.388	6	0.000	0.000	+	0.0285		
31252C/31248	2	6	85.000	83.016	6	511.667	07.022	-	0.0264	6	1.332	1.324	6	10.398	7.013	-	0.0256		
31252C/31252	2	6	85.000	83.016	6	1266.667	52.518	-	0.0039	6	1.332	1.324	6	14.610	11.635	-	0.0052		
99826C/33141	2	6	0.000	0.000	5	66.000	52.307	-	0.1845	6	0.000	0.000	5	0.348	0.226	-	0.1783		
Habitat Means			204.167	140.448		461.084	27.962	-			2.126	1.509		6.339	4.719	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0011x	Power	---		Power-50%	---		P-value	0.0013x		
Stouffer's		Power	0.000		Power-50%	0.70		P-value	0.3292	Power	0.000		Power-50%	0.94		P-value	0.3545		
30196C/30196	3	6	8.333	4.014	6	3.333	3.333	+	0.3592	6	0.017	0.011	6	0.042	0.042	-	0.7369		
31252C/31248	3	6	60.000	21.292	6	48.333	24.956	+	0.8313	6	0.415	0.160	6	0.403	0.206	-	0.9366		
31252C/31252	3	6	60.000	21.292	6	148.333	58.789	-	0.5930	6	0.415	0.160	6	1.305	0.524	-	0.5606		
99826C/33141	3	4	0.000	0.000	5	8.000	5.831	-	0.3108	4	0.000	0.000	5	0.014	0.014	-	0.5556		
Habitat Means			32.083	11.650		52.000	23.227	-			0.212	0.083		0.441	0.202	-			
Fisher's		Power	0.261		Power-50%	0.084		P-value	0.4709	Power	0.243		Power-50%	0.24		P-value	0.3986		
Stouffer's		Power	0.308		Power-50%	0.176		P-value	0.7168	Power	0.289		Power-50%	0.21		P-value	0.3142		

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

Table 88, Page 5. December 21, 1994

Chthamalus dalli - abundance (#/m^2)										Chthamalus dalli - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	483.333	329.046	6	3.333	3.333	+	0.1388	6	4.127	2.955	6	0.043	0.043	+	0.1589
31252C/31248	1	6	76.667	66.866	6	476.667	62.019	-	0.1196	6	0.888	0.730	6	6.505	5.171	-	0.1528
31252C/31252	1	6	76.667	66.866	6	1236.667	99.542	-	0.0167	6	0.888	0.730	6	17.413	13.781	-	0.0187
99826C/33141	1	6	0.000	0.000	6	115.000	79.572	-	0.1758	6	0.000	0.000	6	0.873	0.669	-	0.1765
Habitat Means			159.167	115.695		457.917	61.117	-			1.476	1.104		6.209	4.916	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0096	Power	---		Power-50%	---		P-value	0.0124
Stouffer's		Power	0.002		Power-50%	0.13		P-value	0.3130	Power	0.002		Power-50%	1.62		P-value	0.3189
30196C/30196	2	6	646.667	395.758	6	0.000	0.000	+	0.0326	6	5.838	3.388	6	0.000	0.000	+	0.0285
31252C/31248	2	6	85.000	83.016	6	511.667	07.022	-	0.0264	6	1.332	1.324	6	10.398	7.013	-	0.0256
31252C/31252	2	6	85.000	83.016	6	1266.667	52.518	-	0.0039	6	1.332	1.324	6	14.610	11.635	-	0.0052
99826C/33141	2	6	0.000	0.000	5	66.000	52.307	-	0.1845	6	0.000	0.000	5	0.348	0.226	-	0.1783
Habitat Means			204.167	140.448		461.084	27.962	-			2.126	1.509		6.339	4.719	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0011x	Power	---		Power-50%	---		P-value	0.0013x
Stouffer's		Power	0.000		Power-50%	0.70		P-value	0.3292	Power	0.000		Power-50%	0.94		P-value	0.3545
30196C/30196	3	6	8.333	4.014	6	3.333	3.333	+	0.3592	6	0.017	0.011	6	0.042	0.042	-	0.7369
31252C/31248	3	6	60.000	21.292	6	48.333	24.956	+	0.8313	6	0.415	0.160	6	0.403	0.206	-	0.9366
31252C/31252	3	6	60.000	21.292	6	148.333	58.789	-	0.5930	6	0.415	0.160	6	1.305	0.544	-	0.5606
99826C/33141	3	4	0.000	0.000	5	8.000	5.831	-	0.3108	4	0.000	0.000	5	0.014	0.014	-	0.5556
Habitat Means			32.083	11.650		52.000	23.227	-			0.212	0.083		0.441	0.202	-	
Fisher's		Power	0.261		Power-50%	0.084		P-value	0.4709	Power	0.243		Power-50%	0.024		P-value	0.3986
Stouffer's		Power	0.308		Power-50%	0.076		P-value	0.7168	Power	0.289		Power-50%	0.021		P-value	0.3142

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

Table 88, Page 6. December 21, 1994

Table D-88. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	703.333	409.534	6	465.000	336.984	+	0.3728	6	135.697	88.429	6	162.283	136.265	-	0.4259		
31252C/31248	1	6	211.667	86.696	6	173.333	71.259	+	0.6531	6	33.427	14.965	6	20.852	9.276	-	0.6965		
31252C/31252	1	6	211.667	86.696	6	493.333	415.810	-	0.8756	6	33.427	14.965	6	119.997	111.654	-	0.9583		
99826C/33141	1	6	38.333	16.617	6	1558.333	688.977	-	0.1945	6	4.152	1.660	6	245.797	107.420	-	0.5592		
Habitat Means			291.250	149.886		672.500	378.258	-			51.676	30.005		137.232	91.154	-			
Fisher's		Power	0.013		Power-50%	0.040		P-value	0.4821	Power	0.013		Power-50%	0.043		P-value	0.4364		
Stouffer's		Power	0.030		Power-50%	0.183		P-value	0.7814	Power	0.007		Power-50%	0.109		P-value	0.3013		
30196C/30196	2	6	473.333	212.064	6	10.000	6.325	+	0.0328	6	124.095	82.060	6	1.453	1.104	+	0.1830		
31252C/31248	2	6	118.333	53.443	6	290.000	140.095	-	0.5849	6	29.157	21.509	6	63.178	30.273	-	0.2276		
31252C/31252	2	6	118.333	53.443	6	285.000	155.751	-	0.9769	6	29.157	21.509	6	56.008	29.676	-	0.7463		
99826C/33141	2	6	136.667	58.348	5	668.660	418.808	-	0.2855	6	20.245	11.202	5	177.845	113.772	-	0.4882		
Habitat Means			211.667	94.325		313.415	180.245	-			50.664	34.070		74.621	43.706	-			
Fisher's		Power	0.006		Power-50%	0.027		P-value	0.4514x	Power	0.003		Power-50%	0.005		P-value	0.3152		
Stouffer's		Power	0.015		Power-50%	0.037		P-value	0.9157	Power	0.011		Power-50%	0.016		P-value	0.6344		
30196C/30196	3	6	5.000	3.416	6	0.000	0.000	+	0.1784	6	1.553	1.533	6	0.000	0.000	+	0.8631		
31252C/31248	3	6	58.333	17.401	6	38.333	18.151	+	0.1137	6	22.132	9.921	6	15.157	8.128	+	0.4406		
31252C/31252	3	6	58.333	17.401	6	11.667	4.773	+	0.0130	6	22.132	9.921	6	1.315	0.630	+	0.0256		
99826C/33141	3	4	20.000	13.540	5	76.000	40.200	-	0.3830	4	9.145	7.891	5	4.024	2.888	-	0.1182		
Habitat Means			35.417	12.940		31.500	15.781	+			13.741	7.317		5.124	2.912	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0070	Power	---		Power-50%	---		P-value	0.0144		
Stouffer's		Power	---		Power-50%	0.050		P-value	0.0041	Power	---		Power-50%	---		P-value	0.0793		

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	2206.667	586.218	6	838.333	606.962	+	0.6609	6	81.852	23.305	6	48.352	34.756	+	0.0590		
31252C/31248	1	6	4898.333	3763.451	6	5315.000	2212.237	-	0.8936	6	95.547	33.215	6	193.615	77.152	-	0.2047		
31252C/31252	1	6	4898.333	3763.451	6	4556.667	1466.321	+	0.9127	6	95.547	33.215	6	202.763	54.059	-	0.2296		
99826C/33141	1	6	3515.000	1498.897	6	61.667	57.759	-	0.2713	6	252.597	117.805	6	1.485	1.475	-	0.0005		
Habitat Means			3879.583	2403.004		2692.917	1085.820	-			131.386	51.885		111.554	41.861	-			
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.3454	Power	---		Power-50%	---		P-value	0.0022		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.3408	Power	0.000		Power-50%	0.000		P-value	0.2250		
30196C/30196	2	6	3323.333	2195.093	6	725.000	510.847	+	0.5657	6	170.598	113.934	6	81.475	52.629	+	0.8970		
31252C/31248	2	6	13510.000	6243.983	6	13708.333	4439.639	-	0.5817	6	456.245	117.199	6	592.140	223.736	-	0.9510		
31252C/31252	2	6	13510.000	6243.983	6	17398.334	5262.896	-	0.2749	6	456.245	117.199	6	703.857	259.318	-	0.4705		
99826C/33141	2	6	13691.667	3683.708	5	12.000	7.348	+	0.0001	6	1113.975	221.172	5	0.362	0.226	+	0.0024		
Habitat Means			11008.750	4591.692		7960.917	2555.183	+			549.266	142.376		344.439	133.977	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0030	Power	---		Power-50%	---		P-value	0.0314		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.4599	Power	0.007		Power-50%	0.012		P-value	0.4839		
30196C/30196	3	6	71.667	32.804	6	6.667	6.667	+	0.0844	6	4.543	2.152	6	0.335	0.335	-	0.1241		
31252C/31248	3	6	19116.666	5009.343	6	21905.000	2771.753	-	0.3942	6	1169.612	155.321	6	1294.558	263.347	-	0.9157		
31252C/31252	3	6	19116.666	5009.343	6	23875.000	5049.421	-	0.3713	6	1169.612	155.321	6	949.190	188.236	+	0.2944		
99826C/33141	3	4	4517.500	1358.335	5	360.660	293.958	-	0.0323	4	125.637	34.076	5	13.842	12.394	+	0.0490		
Habitat Means			10705.625	2852.456		11536.832	2030.450	+			617.351	86.718		564.481	116.078	+			
Fisher's		Power	---		Power-50%	---		P-value	0.0513 y	Power	---		Power-50%	---		P-value	0.0210		
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.2031	Power	---		Power-50%	---		P-value	0.0438		

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

Table D-88, Page 7. December 21, 1994

Table D-88. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Lacuna spp. - abundance (#/m ²)										Lacuna spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
30196C/30196	2	6	916.667	916.667	6	270.000	234.066	+	0.7475	6	0.917	0.917	6	0.168	0.147	-	0.8042		
31252C/31248	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	2	6	1.667	1.667	5	56.000	56.000	-	0.5282	6	0.000	0.000	5	0.060	0.060	-	0.4005		
Habitat Means			229.584	229.584		81.500	72.516	-			0.229	0.229		0.057	0.052	-			
Fisher's		Power	0.026		Power-50%	---	P-value	0.6057 y		Power	0.036		Power-50%	---	P-value	0.5347 y			
Stouffer's		Power	0.000		Power-50%	---	P-value	0.5843		Power	0.000		Power-50%	---	P-value	0.5548			
30196C/30196	3	6	1035.000	652.660	6	2765.000	1469.600	-	0.2641	6	1.105	0.678	6	1.855	0.779	-	0.2652		
31252C/31248	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	3	6	0.000	0.000	6	13.333	7.601	-	0.0329	6	0.000	0.000	6	0.02	0.005	-	0.0604		
99826C/33141	3	4	0.000	0.000	5	136.000	136.000	-	0.3739	4	0.000	0.000	5	0.176	0.176	-	0.3739		
Habitat Means			258.750	163.165		728.583	403.300	-			0.276	0.170		0.511	0.240	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0301		Power	---		Power-50%	---	P-value	0.0456			
Stouffer's		Power	---		Power-50%	---	P-value	0.0421		Power	---		Power-50%	---	P-value	0.0512			

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

Table D-88, Page 9, December 21, 1994

Littorina spp. - abundance (#/m ²)										Littorina spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	1653.333	461.567	6	1410.000	763.108	+	0.7417	6	25.520	9.296	6	76.585	46.838	-	0.2126		
31252C/31248	1	6	1195.000	533.296	6	680.000	151.482	+	0.4865	6	72.633	35.238	6	44.255	12.236	-	0.4856		
31252C/31252	1	6	1195.000	533.296	6	1308.333	487.124	-	0.8779	6	72.633	35.238	6	31.045	6.647	-	0.3085		
99826C/33141	1	6	808.333	361.510	6	1411.100	628.352	-	0.4158	6	78.202	24.426	6	81.422	30.776	-	0.9367		
Habitat Means			1212.917	472.417		1202.358	507.517	-			62.247	26.050		58.327	24.124	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.6168 y		Power	0.000		Power-50%	0.000	P-value	0.5484 y			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.6829		Power	0.000		Power-50%	0.000	P-value	0.3740			
30196C/30196	2	6	1686.667	729.597	6	1985.000	741.749	-	0.8010	6	35.698	12.819	6	21.092	9.812	-	0.8749		
31252C/31248	2	6	3036.667	739.863	6	2166.667	522.536	-	0.4636	6	181.702	44.597	6	86.767	17.044	-	0.0986		
31252C/31252	2	6	3036.667	739.863	6	3041.667	964.968	-	0.9966	6	181.702	44.597	6	52.523	17.047	-	0.1825		
99826C/33141	2	6	2165.000	604.840	5	2288.660	1568.476	-	0.9206	6	141.587	39.439	5	109.206	96.345	+	0.0680		
Habitat Means			2481.250	703.541		2370.499	949.432	-			135.172	35.363		67.397	35.062	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.7248 y		Power	---		Power-50%	---	P-value	0.0137			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.5520		Power	---		Power-50%	---	P-value	0.0658			
30196C/30196	3	6	2155.000	1440.451	6	1978.333	1159.147	-	0.7233	6	37.715	32.489	6	4.642	3.114	-	0.2230		
31252C/31248	3	6	2290.000	786.176	6	2440.000	494.631	-	0.4235	6	55.843	17.329	6	62.870	15.485	-	0.7938		
31252C/31252	3	6	2290.000	786.176	6	4953.333	1636.911	-	0.1382	6	55.843	17.329	6	37.650	13.324	-	0.4996		
99826C/33141	3	4	800.000	636.671	5	206.660	86.047	+	0.3519	4	48.042	37.116	5	1.295	0.846	-	0.3739		
Habitat Means			1883.750	912.369		2394.582	844.184	-			49.361	26.066		26.614	8.192	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.2842		Power	0.000		Power-50%	0.000	P-value	0.1736			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.2913		Power	0.000		Power-50%	0.000	P-value	0.1218			

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

Table D-88, Page 10, December 21, 1994

Table D-88. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	1653.333	461.567	6	1410.000	763.108	+	0.7403	6	25.520	9.296	6	76.585	46.838	-	0.2117		
31252C/31248	1	6	1193.333	532.583	6	678.333	150.409	+	0.4840	6	72.613	35.235	6	44.165	12.168	-	0.4836		
31252C/31252	1	6	1193.333	532.583	6	1306.667	487.296	-	0.8772	6	72.613	35.235	6	30.997	6.639	-	0.3071		
99826C/33141	1	6	808.333	361.510	6	1369.433	610.202	-	0.4460	6	78.202	24.426	6	80.412	30.362	-	0.9563		
Habitat Means			1212.083	472.061		1191.108	502.754	-			62.237	26.048		58.040	24.002	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.6329	y	Power	0.000		Power-50%	0.000	P-value	0.5525	y		
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.6853		Power	0.000		Power-50%	0.000	P-value	0.3749			
30196C/30196	2	6	1685.000	728.124	6	1955.000	733.697	-	0.8186	6	35.693	12.816	6	21.042	9.766	+	0.8746		
31252C/31248	2	6	3033.333	738.723	6	2163.333	521.598	+	0.4614	6	181.650	44.607	6	86.553	16.965	+	0.0977		
31252C/31252	2	6	3033.333	738.723	6	3035.000	963.365	-	0.9983	6	181.650	44.607	6	52.382	17.016	+	0.1822		
99826C/33141	2	6	2163.333	603.968	5	2238.660	1553.690	-	0.9513	6	141.397	39.361	5	108.284	95.706	+	0.0670		
Habitat Means			2478.750	702.385		2347.998	943.088	-			135.098	35.348		67.065	34.863	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.7374	y	Power	---		Power-50%	---	P-value	0.0134	y		
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.5613		Power	---		Power-50%	---	P-value	0.0654			
30196C/30196	3	6	2155.000	1440.451	6	1978.333	1159.147	+	0.7233	6	37.715	32.489	6	4.642	3.114	+	0.2229		
31252C/31248	3	6	2278.333	781.044	6	2420.000	493.227	-	0.4284	6	55.738	17.323	6	62.645	15.480	-	0.7971		
31252C/31252	3	6	2278.333	781.044	6	4943.333	1636.876	-	0.1377	6	55.738	17.323	6	37.537	13.291	+	0.4993		
99826C/33141	3	4	800.000	636.671	5	206.660	86.047	-	0.3519	4	48.042	37.116	5	1.295	0.846	-	0.3739		
Habitat Means			1877.917	909.803		2387.082	843.824	-			49.308	26.063		26.530	8.183	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.2854		Power	0.000		Power-50%	0.000	P-value	0.1732			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.2924		Power	0.000		Power-50%	0.000	P-value	0.1213			

1

2

direction of difference between habitat means is different than direction of overall tests.
Only one site pair.

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.020	0.020	6	0.090	0.090	-	0.8537		
31252C/31252	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.020	0.020	6	0.048	0.048	-	0.9083		
99826C/33141	1	6	0.000	0.000	6	41.667	21.357	-	0.0292	6	0.000	0.000	6	1.010	0.479	-	0.0264		
Habitat Means			0.834	0.834		11.250	6.173	-			0.010	0.010		0.287	0.154	-			
Fisher's		Power	0.048		Power-50%	---	P-value	0.1259		Power	0.635		Power-50%	---	P-value	0.1012			
Stouffer's		Power	0.072		Power-50%	---	P-value	0.4366		Power	0.214		Power-50%	---	P-value	0.3861			
30196C/30196	2	6	1.667	1.667	6	30.000	30.000	-	0.5953	6	0.005	0.005	6	0.050	0.050	-	0.8103		
31252C/31248	2	6	3.333	3.333	6	3.333	2.108	o	0.7395	6	0.052	0.052	6	0.213	0.139	-	0.4521		
31252C/31252	2	6	3.333	3.333	6	6.667	3.333	-	0.3647	6	0.052	0.052	6	0.142	0.118	-	0.3420		
99826C/33141	2	6	1.667	1.667	5	50.000	25.100	-	0.0225	6	0.190	0.190	5	0.922	0.659	-	0.1042		
Habitat Means			2.500	2.500		22.500	15.135	-			0.075	0.075		0.332	0.242	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0465		Power	---		Power-50%	---	P-value	0.0762			
Stouffer's		Power	0.037		Power-50%	---	P-value	0.2227		Power	0.135		Power-50%	---	P-value	0.1581			
30196C/30196	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	3	6	11.667	8.333	6	20.000	7.746	-	0.3221	6	0.105	0.069	6	0.225	0.116	-	0.3228		
31252C/31252	3	6	11.667	8.333	6	10.000	5.164	+	0.7591	6	0.105	0.069	6	0.113	0.059	-	0.6692		
99826C/33141	3	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			5.834	4.167		7.500	3.228	-			0.053	0.035		0.085	0.044	-			
Fisher's		Power	0.000		Power-50%	0.204	P-value	0.4963		Power	0.000		Power-50%	0.404	P-value	0.3763			
Stouffer's		Power	0.000		Power-50%	0.225	P-value	0.3620		Power	0.000		Power-50%	0.215	P-value	0.2696			

Table D-88, Page 11, December 21, 1994

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-88, Page 11. December 21, 1994

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

Table D-88, Page 12. December 21, 1994

Table D-88. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula, Sheltered Rocky, August 1990. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	23.333	17.638	6	121.667	107.747	-	0.3667	6	4.198	4.172	6	3.248	3.206	-	0.7733		
31252C/31248	1	6	53.333	39.553	6	23.333	7.601	-	0.4579	6	8.212	8.120	6	0.557	0.265	-	0.3839		
31252C/31252	1	6	53.333	39.553	6	348.333	310.981	-	0.4246	6	8.212	8.120	6	17.442	15.274	-	0.4988		
99826C/33141	1	6	138.333	105.591	6	240.550	190.487	-	0.5124	6	13.740	8.443	6	38.467	36.727	-	0.7726		
Habitat Means			67.083	50.584		183.471	154.204	-			8.591	7.214		14.929	13.868	-			
Fisher's		Power	0.001		Power-50%	0.440	P-value	0.2841		Power	0.151		Power-50%	0.122	P-value	0.5636			
Stouffer's		Power	0.000		Power-50%	0.592	P-value	0.2378		Power	0.289		Power-50%	0.192	P-value	0.3535			
30196C/30196	2	6	291.667	187.606	6	201.667	110.406	+	0.9015	6	16.077	10.414	6	17.698	14.224	-	0.7013		
31252C/31248	2	6	485.000	204.349	6	490.000	253.903	-	0.7037	6	95.900	49.201	6	32.993	18.422	+	0.1131		
31252C/31252	2	6	485.000	204.349	6	285.000	130.301	+	0.3260	6	95.900	49.201	6	6.990	4.111	+	0.0258		
99826C/33141	2	6	943.333	451.041	5	2171.340	1494.502	-	0.6269	6	733.415	646.938	5	248.023	235.131	+	0.6908		
Habitat Means			551.250	261.836		787.002	497.278	+			235.323	188.914		76.426	67.972	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.5535		Power	---		Power-50%	---	P-value	0.0259			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.4059		Power	0.000		Power-50%	0.000	P-value	0.1045			
30196C/30196	3	6	101.667	91.885	6	471.667	449.692	-	0.1531	6	2.460	2.418	6	8.600	6.967	-	0.4174		
31252C/31248	3	6	1546.667	465.544	6	2525.000	1169.178	-	0.9983	6	240.242	168.589	6	99.218	41.547	-	0.4842		
31252C/31252	3	6	1546.667	465.544	6	5301.667	1897.559	-	0.5073	6	240.242	168.589	6	73.362	35.624	-	0.2434		
99826C/33141	3	4	1977.500	1073.836	5	882.660	829.809	+	0.0146	4	3144.663	1632.208	5	438.574	418.275	-	0.0686		
Habitat Means			1293.125	524.202		2295.249	1086.560	-			906.902	492.951		154.939	125.603	-			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.3186		Power	---		Power-50%	---	P-value	0.0752			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1131		Power	0.002		Power-50%	0.005	P-value	0.4118			

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

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Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	275.000	273.005	6	135.000	106.262	+	0.4567	6	0.272	0.268	6	0.167	0.123	-	0.6276		
31252C/31248	1	6	3.333	3.333	6	21.667	21.667	-	0.7942	6	0.000	0.000	6	2.763	2.763	-	0.3822		
31252C/31252	1	6	3.333	3.333	6	5.000	5.000	-	0.9557	6	0.000	0.000	6	0.010	0.010	-	0.4101		
99826C/33141	1	6	18.333	12.225	6	5.000	5.000	+	0.5185	6	0.015	0.010	6	0.022	0.022	-	0.6952		
Habitat Means			75.000	72.974		41.667	34.482	+			0.072	0.070		0.741	0.730	-			
Fisher's		Power	0.008		Power-50%	0.114	P-value	0.4369		Power	0.568		Power-50%	0.129	P-value	0.3140			
Stouffer's		Power	0.014		Power-50%	0.192	P-value	0.3067		Power	0.309		Power-50%	0.178	P-value	0.3669			
30196C/30196	2	6	270.000	194.491	6	4636.667	3673.649	-	0.2560	6	0.267	0.206	6	4.923	3.726	-	0.3957		
31252C/31248	2	6	3.333	2.108	6	25.000	23.058	-	0.7800	6	0.000	0.000	6	0.020	0.020	-	0.3977		
31252C/31252	2	6	3.333	2.108	6	6.667	4.944	-	0.9096	6	0.000	0.000	6	0.008	0.008	-	0.4066		
99826C/33141	2	6	208.333	152.718	5	468.000	465.504	-	0.4096	6	0.228	0.146	5	0.548	0.543	-	0.5418		
Habitat Means			121.250	87.856		1284.084	1041.789	-			0.124	0.088		1.375	1.074	-			
Fisher's		Power	0.181		Power-50%	0.627	P-value	0.2168		Power	0.287		Power-50%	0.589	P-value	0.1396			
Stouffer's		Power	0.273		Power-50%	0.758	P-value	0.1258		Power	---		Power-50%	---	P-value	0.0778			
30196C/30196	3	6	1828.333	1402.118	6	2723.333	1464.879	-	0.1362	6	1.760	1.443	6	2.310	1.215	-	0.1776		
31252C/31248	3	6	3.333	2.108	6	153.333	151.342	-	0.5756	6	0.007	0.004	6	0.230	0.230	-	0.8518		
31252C/31252	3	6	3.333	2.108	6	38.333	23.010	-	0.2463	6	0.007	0.004	6	0.050	0.029	-	0.3846		
99826C/33141	3	4	4600.000	3956.573	5	304.000	279.671	+	0.0030	4	4.065	3.540	5	0.252	0.240	+	0.0045		
Habitat Means			1608.750	1340.727		804.750	479.726	-			1.460	1.248		0.711	0.429	-			
Fisher's		Power	0.071		Power-50%	0.095	P-value	0.1487		Power	0.004		Power-50%	0.108	P-value	0.2756			
Stouffer's		Power	---		Power-50%	0.184	P-value	0.0486		Power	0.000		Power-50%	0.230	P-value	0.1010			

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

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Table D-88. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Pagurus spp. - abundance (#/m ²)										Pagurus spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.113	0.113	-	0.3632		
Habitat Means			0.000	0.000		0.833	0.833	-			0.000	0.000		0.028	0.028	-			
Fisher's	Power		---		Power-50%	---		P-value	0.4765	Power	---		Power-50%	---		P-value	0.4765		
Stouffer's	Power		---		Power-50%	---		P-value	0.4735	Power	---		Power-50%	---		P-value	0.4735		
30196C/30196	2	6	5.000	2.236	6	1.667	1.667	+	0.2596	6	1.313	0.704	6	0.592	0.592	-	0.2842		
31252C/31248	2	6	6.667	4.944	6	1.667	1.667	+	0.4603	6	0.350	0.263	6	0.117	0.117	-	0.5308		
31252C/31252	2	6	6.667	4.944	6	0.000	0.000	+	0.1830	6	0.350	0.263	6	0.000	0.000	-	0.1766		
99826C/33141	2	6	46.667	27.649	5	66.000	63.530	-	0.5049	6	2.513	1.690	5	2.618	2.483	-	0.4642		
Habitat Means			16.250	9.943		17.334	16.716	+			1.132	0.730		0.832	0.798	+			
Fisher's	Power		0.051		Power-50%	0.710		P-value	0.1348	Power	0.029		Power-50%	0.588		P-value	0.1540		
Stouffer's	Power		---		Power-50%	0.815		P-value	0.0465	Power	---		Power-50%	---		P-value	0.0566		
30196C/30196	3	6	16.667	9.189	6	8.333	8.540	+	0.5232	6	0.852	0.842	6	1.673	1.059	-	0.8597		
31252C/31248	3	6	10.000	6.325	6	53.333	24.721	-	0.1058	6	0.823	0.600	6	3.213	1.698	-	0.4050		
31252C/31252	3	6	10.000	6.325	6	15.000	9.220	-	0.6495	6	0.823	0.600	6	0.692	0.555	+	0.6923		
99826C/33141	3	4	67.500	36.372	5	8.000	8.000	+	0.0599	4	3.758	3.270	5	0.104	0.104	-	0.2491		
Habitat Means			26.042	14.553		21.167	12.120	+			1.564	1.328		1.421	0.854	-			
Fisher's	Power		0.038		Power-50%	0.408		P-value	0.2259	Power	0.002		Power-50%	0.090		P-value	0.4469		
Stouffer's	Power		0.038		Power-50%	0.546		P-value	0.6047	Power	0.014		Power-50%	0.220		P-value	0.6200		

z Only one site pair.

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Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.353	0.353	6	2.298	2.298	-	0.8814		
31252C/31252	1	6	1.667	1.667	6	8.333	8.333	-	0.7460	6	0.353	0.353	6	5.885	5.885	-	0.8328		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.834	0.834		2.500	2.500	-			0.177	0.177		2.046	2.046	-			
Fisher's	Power		---		Power-50%	---		P-value	0.6325	Power	---		Power-50%	---		P-value	0.6289		
Stouffer's	Power		---		Power-50%	---		P-value	0.4541	Power	---		Power-50%	---		P-value	0.4425		
30196C/30196	2	6	8.333	8.333	6	0.000	0.000	-	0.4578	6	1.612	1.612	6	0.000	0.000	+	0.3632		
31252C/31248	2	6	11.667	11.667	6	5.000	2.236	-	0.5520	6	0.655	0.655	6	4.300	2.246	-	0.2318		
31252C/31252	2	6	11.667	11.667	6	8.333	4.773	-	0.7658	6	0.655	0.655	6	5.022	2.272	-	0.2224		
99826C/33141	2	6	8.333	8.333	5	8.000	8.000	+	0.9774	6	8.537	8.537	5	5.014	5.014	+	0.9375		
Habitat Means			10.000	10.000		5.333	3.752	+			2.865	2.865		3.584	2.383	-			
Fisher's	Power		1.000		Power-50%	---		P-value	0.3529	Power	0.013		Power-50%	---		P-value	0.2401		
Stouffer's	Power		1.000		Power-50%	---		P-value	0.1626	Power	0.000		Power-50%	---		P-value	0.3991		
30196C/30196	3	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.010	0.010	6	0.000	0.000	-	0.3632		
31252C/31248	3	6	1.667	1.667	6	3.333	2.108	-	0.5490	6	2.493	2.493	6	0.255	0.188	-	0.7943		
31252C/31252	3	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	2.493	2.493	6	0.000	0.000	-	0.3632		
99826C/33141	3	4	2.500	2.500	5	0.000	0.000	+	0.3910	4	6.250	6.250	5	0.000	0.000	-	0.3910		
Habitat Means			1.875	1.875		0.833	0.527	+			2.812	2.812		0.064	0.047	-			
Fisher's	Power		0.911		Power-50%	---		P-value	0.2175	Power	1.000		Power-50%	---		P-value	0.1541		
Stouffer's	Power		0.883		Power-50%	---		P-value	0.2004	Power	1.000		Power-50%	---		P-value	0.1072		

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-88, Page 16. December 21, 1994

Table D-88. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Nucella lima - abundance (#/m^2)										Nucella lima - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	1	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.353	0.353	6	2.298	2.298	-	0.8814		
31252C/31252	1	6	1.667	1.667	6	8.333	8.333	-	0.7460	6	0.353	0.353	6	5.885	5.885	-	0.8328		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.834	0.834		2.500	2.500	-			0.177	0.177		2.046	2.046	-			
Fisher's	Power	---			Power-50%	---	P-value	0.6325		Power	---		Power-50%	---	P-value	0.6289			
Stouffer's	Power	---			Power-50%	---	P-value	0.4541		Power	---		Power-50%	---	P-value	0.4425			
30196C/30196	2	6	8.333	8.333	6	0.000	0.000	+	0.4383	6	1.612	1.612	6	0.000	0.000	-	0.3632		
31252C/31248	2	6	11.667	11.667	6	5.000	2.236	+	0.5346	6	0.655	0.655	6	4.300	2.246	-	0.2318		
31252C/31252	2	6	11.667	11.667	6	8.333	4.773	+	0.7557	6	0.655	0.655	6	5.022	2.272	-	0.2224		
99826C/33141	2	6	8.333	8.333	5	2.000	2.000	+	0.5736	6	8.537	8.537	5	4.886	4.886	-	0.9389		
Habitat Means			10.000	10.000		3.833	2.252	+			2.865	2.865		3.552	2.351	-			
Fisher's	Power		1.000		Power-50%	---	P-value	0.2568		Power	0.015		Power-50%	---	P-value	0.2399			
Stouffer's	Power		1.000		Power-50%	---	P-value	0.1432		Power	0.000		Power-50%	---	P-value	0.3991			
30196C/30196	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	3	6	1.667	1.667	6	3.333	2.108	-	0.5490	6	2.493	2.493	6	0.255	0.188	-	0.7943		
31252C/31252	3	6	1.667	1.667	6	0.000	0.000	-	0.3632	6	2.493	2.493	6	0.000	0.000	+	0.3632		
99826C/33141	3	4	2.500	2.500	5	0.000	0.000	-	0.3910	4	6.250	6.250	5	0.000	0.000	+	0.3910		
Habitat Means			1.459	1.459		0.833	0.527	-			2.809	2.809		0.064	0.047	-			
Fisher's	Power		0.639		Power-50%	---	P-value	0.3678		Power	0.998		Power-50%	---	P-value	0.2714			
Stouffer's	Power		0.616		Power-50%	---	P-value	0.4572		Power	0.840		Power-50%	---	P-value	0.3055			

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

Table D-88. Page 17. December 21, 1994

Nucella lamellosa - abundance (#/m^2)										Nucella lamellosa - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
30196C/30196	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	2	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
30196C/30196	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	3	4	0.000	0.000	5	0.000	0.000	o	1.0000	4	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	

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

Table D-88. Page 18. December 21, 1994

Table D-88. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	55.000	53.025	6	3.333	2.108	+	0.5430	6	0.115	0.115	6	0.005	0.005	-	0.6796		
31252C/31248	1	6	3.333	3.333	6	0.000	0.000	+	0.5828	6	0.002	0.002	6	0.000	0.000	-	0.3632		
31252C/31252	1	6	3.333	3.333	6	0.000	0.000	+	0.5828	6	0.002	0.002	6	0.000	0.000	-	0.3632		
99826C/33141	1	6	115.000	115.000	6	10.000	10.000	+	0.6612	6	0.035	0.035	6	0.000	0.000	-	0.3986		
Habitat Means			44.167	43.673		3.333	3.027	+			0.039	0.039		0.001	0.001	-			
Fisher's		Power	0.900		Power-50%	0.138	P-value	0.2828		Power	0.404		Power-50%	0.038	P-value	0.1421			
Stouffer's		Power	0.937		Power-50%	0.207	P-value	0.1650		Power	0.467		Power-50%	0.090	P-value	0.1265			
30196C/30196	2	6	801.667	546.860	6	575.000	345.077	-	0.9693	6	1.568	0.961	6	1.097	0.580	-	0.7470		
31252C/31248	2	6	5.000	3.416	6	203.333	203.333	-	0.8376	6	0.000	0.000	6	0.225	0.225	-	0.4162		
31252C/31252	2	6	5.000	3.416	6	0.000	0.000	+	0.1784	6	0.001	0.001	6	0.000	0.000	-	0.1747		
99826C/33141	2	6	870.000	842.093	5	669.340	659.386	+	0.6866	6	0.427	0.399	5	1.355	1.355	-	0.6691		
Habitat Means			420.417	348.946		361.918	301.949	+			0.499	0.340		0.669	0.540	-			
Fisher's		Power	0.003		Power-50%	0.180	P-value	0.3014		Power	0.001		Power-50%	0.108	P-value	0.4212			
Stouffer's		Power	0.001		Power-50%	0.360	P-value	0.3281		Power	0.001		Power-50%	0.139	P-value	0.3695			
30196C/30196	3	6	1665.000	535.181	6	2020.000	500.073	-	0.9888	6	3.800	1.715	6	4.558	1.108	-	0.5450		
31252C/31248	3	6	116.667	95.277	6	511.667	397.294	-	0.7904	6	0.137	0.108	6	0.612	0.414	-	0.6924		
31252C/31252	3	6	116.667	95.277	6	350.000	123.989	-	0.2249	6	0.137	0.108	6	1.245	0.563	-	0.1323		
99826C/33141	3	4	507.500	333.701	5	882.000	554.576	-	0.8423	4	0.538	0.344	5	2.157	1.406	-	0.7420		
Habitat Means			601.459	264.859		940.917	393.983	-			1.153	0.569		2.143	0.873	-			
Fisher's		Power	0.021		Power-50%	0.005	P-value	0.3124		Power	0.013		Power-50%	0.000	P-value	0.1452			
Stouffer's		Power	0.073		Power-50%	0.014	P-value	0.2800		Power	0.001		Power-50%	0.000	P-value	0.1088			

* At least one site pair p-value < 0.001 in opposite direction of overall tests.

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

z Only one site pair.

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	33.333	33.333	6	1.667	1.667	+	0.4590	6	0.812	0.812	6	0.000	0.000	-	0.3850		
31252C/31248	1	6	1.667	1.667	6	1.667	1.667	0	1.0000	6	0.003	0.003	6	0.005	0.005	-	0.9340		
31252C/31252	1	6	1.667	1.667	6	0.000	0.000	+	0.5407	6	0.003	0.003	6	0.000	0.000	-	0.3632		
99826C/33141	1	6	0.000	0.000	6	3.333	3.333	-	0.4379	6	0.000	0.000	6	0.007	0.007	-	0.3632		
Habitat Means			9.167	9.167		1.667	1.667	+			0.205	0.205		0.003	0.003	+			
Fisher's		Power	---		Power-50%	---	P-value	0.4900		Power	---		Power-50%	---	P-value	0.3985			
Stouffer's		Power	---		Power-50%	---	P-value	0.2243		Power	---		Power-50%	---	P-value	0.1790			
30196C/30196	2	6	415.000	255.209	6	146.667	132.807	+	0.2559	6	8.068	4.979	6	0.128	0.079	+	0.0220		
31252C/31248	2	6	3.333	2.108	6	0.000	0.000	+	0.1747	6	0.003	0.003	6	0.000	0.000	+	0.3007		
31252C/31252	2	6	3.333	2.108	6	18.333	14.472	-	0.4301	6	0.003	0.003	6	0.043	0.030	-	0.1973		
99826C/33141	2	6	6.667	6.667	5	0.000	0.000	-	0.3632	6	0.037	0.037	5	0.000	0.000	+	0.3632		
Habitat Means			107.083	66.523		41.250	36.820	-			2.028	1.256		0.043	0.027	+			
Fisher's		Power	0.236		Power-50%	0.166	P-value	0.1159		Power	---		Power-50%	---	P-value	0.0366			
Stouffer's		Power	---		Power-50%	0.247	P-value	0.0910		Power	---		Power-50%	---	P-value	0.0265			
30196C/30196	3	6	1770.000	777.779	6	836.667	388.584	+	0.7933	6	5.012	2.337	6	3.773	1.474	-	0.5929		
31252C/31248	3	6	95.000	89.135	6	41.667	36.002	+	0.9096	6	0.103	0.096	6	0.082	0.069	+	0.9813		
31252C/31252	3	6	95.000	89.135	6	65.000	23.345	+	0.1147	6	0.103	0.096	6	0.235	0.102	-	0.2120		
99826C/33141	3	4	100.000	81.240	5	22.000	17.436	+	0.5242	4	1.175	0.756	5	0.154	0.135	+	0.5283		
Habitat Means			515.000	259.322		241.334	116.342	+			1.598	0.821		1.061	0.445	+			
Fisher's		Power	0.102		Power-50%	0.073	P-value	0.1594		Power	0.080		Power-50%	0.086	P-value	0.5647			
Stouffer's		Power	0.192		Power-50%	0.169	P-value	0.1913		Power	0.002		Power-50%	0.009	P-value	0.4832			

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

Table D-88, Page 19, December 21, 1994

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-88, Page 20, December 21, 1994

Table D-88. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Errant polychaetes - abundance (#/m ²)										Errant polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	31.000	31.000	6	130.000	101.443	-	0.0232	6	0.030	0.030	6	0.155	0.070	-	0.0040		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	-	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632		
99826C/33141	-	6	0.000	0.000	6	43.883	34.177	-	0.0433	6	0.000	0.000	6	0.045	0.034	-	0.0358		
Habitat Means			7.917	7.917		50.554	34.322	-			0.023	0.023		0.061	0.026	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0062	Power	---		Power-50%	---		P-value	0.0038		
Stouffer's	Power	---			Power-50%	---		P-value	0.0107	Power	---		Power-50%	---		P-value	0.0073		
30196C/30196	2	6	230.000	151.129	6	1835.000	649.270	-	0.0769	6	0.515	0.329	6	8.797	6.111	-	0.1192		
31252C/31248	2	6	23.333	12.019	6	3.333	2.108	+	0.3656	6	0.060	0.037	6	0.005	0.005	-	0.2994		
31252C/31252	2	6	23.333	12.019	6	13.333	9.545	+	0.7403	6	0.060	0.037	6	0.062	0.062	-	0.4622		
99826C/33141	2	6	20.000	8.563	5	2107.340	1754.842	-	0.0359	6	0.080	0.044	5	1.045	0.801	-	0.2892		
Habitat Means			74.167	45.933		989.752	603.941	-			0.179	0.112		2.477	1.745	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0440	Power	0.000		Power-50%	0.022		P-value	0.1203		
Stouffer's	Power	0.010			Power-50%	0.271		P-value	0.1495	Power	0.000		Power-50%	0.000		P-value	0.1333		
30196C/30196	3	6	2360.000	1007.955	6	5135.000	1400.897	-	0.3073	6	11.778	7.500	6	8.212	2.283	+	0.7797		
31252C/31248	3	6	86.667	33.731	6	235.000	119.687	-	0.2122	6	0.177	0.114	6	0.492	0.145	-	0.0661		
31252C/31252	3	6	86.667	33.731	6	695.000	288.129	-	0.0144	6	0.177	0.114	6	1.042	0.424	-	0.0138		
99826C/33141	3	4	902.500	624.918	5	1293.320	344.706	-	0.4042	4	3.105	1.095	5	2.383	1.204	+	0.7998		
Habitat Means			858.959	425.084		1839.580	538.355	-			3.809	2.206		3.032	1.014	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0064	Power	---		Power-50%	---		P-value	0.0161		
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0097	Power	---		Power-50%	---		P-value	0.0676		

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

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

z Only one site pair.

Table D-68. Page 21. December 21, 1994

Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	505.000	501.011	6	350.000	316.470	+	0.4978	6	0.092	0.092	6	0.687	0.634	-	0.3234		
31252C/31248	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.005	0.005	-	0.3632		
99826C/33141	1	6	5.000	3.416	6	1.667	1.667	+	0.4876	6	0.002	0.002	6	0.003	0.003	-	0.9512		
Habitat Means			127.500	126.107		88.750	80.368	+			0.024	0.024		0.174	0.161	-			
Fisher's	Power	0.003			Power-50%	0.006		P-value	0.4951	Power	0.026		Power-50%	0.000		P-value	0.2701		
Stouffer's	Power	0.000			Power-50%	0.007		P-value	0.3926	Power	0.013		Power-50%	0.005		P-value	0.1304		
30196C/30196	2	6	1493.333	1150.718	6	8551.667	4796.395	-	0.3126	6	0.892	0.553	6	8.573	4.719	-	0.1190		
31252C/31248	2	6	96.667	62.325	6	0.000	0.000	-	0.0310	6	0.070	0.039	6	0.000	0.000	+	0.0561		
31252C/31252	2	6	96.667	62.325	6	8.333	6.540	+	0.1314	6	0.070	0.039	6	0.003	0.003	+	0.1269		
99826C/33141	2	6	200.000	113.461	5	176.000	102.499	+	0.7681	6	0.247	0.135	5	0.000	0.000	+	0.3632		
Habitat Means			471.667	347.207		2184.000	1226.359	+			0.320	0.192		2.144	1.181	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0419	Power	---		Power-50%	---		P-value	0.0396		
Stouffer's	Power	0.015			Power-50%	0.215		P-value	0.2254	Power	0.000		Power-50%	0.000		P-value	0.4024		
30196C/30196	3	6	1335.000	432.125	6	21573.334	11790.613	-	0.0189	6	3.109	1.378	6	22.430	8.581	-	0.0761		
31252C/31248	3	6	190.000	101.028	6	51.667	27.008	+	0.1365	6	0.204	0.130	6	0.059	0.037	+	0.1845		
31252C/31252	3	6	190.000	101.028	6	280.000	120.028	-	0.6496	6	0.204	0.130	6	0.422	0.267	-	0.8584		
99826C/33141	3	4	5265.000	3589.379	5	2221.340	1415.795	+	0.5122	4	11.266	4.695	5	9.329	5.504	+	0.8498		
Habitat Means			1745.000	1055.890		6031.585	3338.361	-			3.696	1.583		8.060	3.597	-			
Fisher's	Power	0.004			Power-50%	0.000		P-value	0.1381	Power	0.000		Power-50%	0.000		P-value	0.2996		
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0950	Power	0.000		Power-50%	0.000		P-value	0.1951		

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

Table D-88. Page 21. December 21, 1994

Table D-88. Page 22. December 21, 1994

Table D-88. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. August 1990. (Continued.)

Oligochaeta - abundance (#/m^2)										Oligochaeta - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	565.000	563.002	6	1206.667	1020.763	-	0.6600	6	0.097	0.097	6	1.178	0.672	-	0.0883
31252C/31248	1	6	1591.667	1291.313	6	460.000	334.584	+	0.4391	6	1.267	1.164	6	0.250	0.195	-	0.8114
31252C/31252	1	6	1591.667	1291.313	6	340.000	275.185	+	0.3925	6	1.267	1.164	6	0.083	0.076	-	0.6431
99826C/33141	1	6	1906.667	1870.782	6	82.667	69.521	+	0.2148	6	0.688	0.674	6	0.045	0.044	-	0.4377
Habitat Means			1413.750	1254.103		522.084	425.013	+			0.830	0.775		0.389	0.247	-	
Fisher's		Power	0.027		Power-50%	0.120	P-value	0.1723		Power	0.017		Power-50%	0.080	P-value	0.5149	
Stouffer's		Power	0.066		Power-50%	0.254	P-value	0.3435		Power	0.027		Power-50%	0.183	P-value	0.8509	
30196C/30196	2	6	1485.000	779.464	6	4510.000	1868.060	-	0.5379	6	1.582	1.360	6	3.693	1.065	-	0.0674
31252C/31248	2	6	925.000	751.712	6	1743.333	1601.195	-	0.8414	6	0.957	0.882	6	0.593	0.577	-	0.7479
31252C/31252	2	6	925.000	751.712	6	31.667	18.514	+	0.2711	6	0.957	0.882	6	0.043	0.043	-	0.4207
99826C/33141	2	6	1476.667	855.997	5	982.660	595.536	+	0.9633	6	0.343	0.187	5	0.040	0.033	-	0.7977
Habitat Means			1202.917	784.721		1816.915	1020.826	+			0.960	0.828		1.092	0.430	-	
Fisher's		Power	0.022		Power-50%	0.135	P-value	0.5177 y		Power	0.014		Power-50%	0.054	P-value	0.5375xy	
Stouffer's		Power	0.081		Power-50%	0.401	P-value	0.5766		Power	0.043		Power-50%	0.190	P-value	0.8457	
30196C/30196	3	6	3040.000	1741.731	6	11023.333	6468.867	-	0.1732	6	2.445	1.928	6	8.758	2.892	-	0.0948
31252C/31248	3	6	555.000	318.640	6	1041.667	617.071	-	0.2321	6	0.348	0.296	6	1.177	1.111	-	0.5867
31252C/31252	3	6	555.000	318.640	6	1898.333	1174.778	-	0.3982	6	0.348	0.296	6	0.883	0.523	-	0.5154
99826C/33141	3	4	19697.500	19534.225	5	685.340	417.201	+	0.5743	4	18.885	18.818	5	0.629	0.442	-	0.8451
Habitat Means			5961.875	5478.309		3662.168	2169.479	-			5.507	5.335		2.862	1.242	-	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1083 y		Power	0.000		Power-50%	0.001	P-value	0.1358 y	
Stouffer's		Power	---		Power-50%	0.001	P-value	0.0277		Power	---		Power-50%	---	P-value	0.0345	

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

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

z Only one site pair.

Total Invertebrates - abundance (#/m^2)										Total Invertebrates - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	7340.000	1766.718	6	6346.667	2163.651	+	0.8333	6	297.542	106.655	6	319.696	146.216	-	0.8992
31252C/31248	1	6	9721.667	5016.368	6	7663.333	2384.604	+	0.6631	6	229.065	79.690	6	303.360	84.861	-	0.6714
31252C/31252	1	6	9721.667	5016.368	6	9093.333	2582.104	+	0.8941	6	229.065	79.690	6	414.054	158.524	-	0.2937
99826C/33141	1	6	7113.333	3934.309	6	3893.867	1410.099	+	0.4963	6	375.440	145.821	6	376.901	147.878	-	0.9933
Habitat Means			8474.167	3933.441		6749.300	2135.115	+			282.778	102.964		353.503	134.370	-	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.3994		Power	0.000		Power-50%	0.000	P-value	0.3408	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.3193		Power	0.000		Power-50%	0.000	P-value	0.2498	
30196C/30196	2	6	15101.667	3080.177	6	28590.000	10103.335	-	0.1608	6	440.433	210.065	6	414.378	215.256	+	0.9525
31252C/31248	2	6	20146.666	7024.327	6	20181.666	4022.111	-	0.9968	6	849.021	131.189	6	806.124	199.379	-	0.9219
31252C/31252	2	6	20146.666	7024.327	6	23620.000	5614.326	-	0.7148	6	849.021	131.189	6	863.408	300.728	-	0.9738
99826C/33141	2	6	24233.334	7859.549	5	12051.360	6426.036	+	0.2257	6	2142.405	626.459	5	560.438	367.737	-	0.0013
Habitat Means			19907.083	6247.095		21110.757	6541.452	-			1070.220	274.726		661.087	270.775	-	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.3655		Power	---		Power-50%	---	P-value	0.0146	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1203		Power	0.000		Power-50%	0.000	P-value	0.3755	
30196C/30196	3	6	25063.334	8472.982	6	69870.000	27191.115	-	0.0194	6	234.090	89.969	6	538.127	180.492	-	0.0932
31252C/31248	3	6	28020.000	6846.555	6	32195.000	3501.549	-	0.8211	6	1622.353	338.556	6	1674.732	351.233	-	0.9853
31252C/31252	3	6	28020.000	6846.555	6	41641.668	7881.743	-	0.4622	6	1622.353	338.556	6	1255.154	232.306	-	0.6580
99826C/33141	3	4	43825.000	22822.131	5	15545.300	9174.783	+	0.1925	4	3467.002	1728.708	5	586.859	469.688	-	0.0012
Habitat Means			31232.084	11247.056		39812.992	11937.298	-			1736.450	623.947		1013.718	308.430	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0771		Power	---		Power-50%	---	P-value	0.0177*	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0155		Power	0.000		Power-50%	0.000	P-value	0.8331	

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

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

z Only one site pair.

Table D-88, page 23. December 21, 1994

Table D-89. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m^2)										Lottidae - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	11.667	9.804	5	18.000	8.000	-	0.8350	6	2.712	2.040	5	7.566	4.913	-	0.4807
31252C/31248	1	5	56.000	23.791	6	60.000	12.111	-	0.8953	5	12.620	8.276	6	7.328	1.566	-	0.4423
31252C/31252	1	5	56.000	23.791	6	66.667	33.133	-	0.7259	5	12.620	8.276	6	9.130	4.333	-	0.6116
99826C/33141	1	6	66.667	26.034	6	25.000	15.864	+	0.1563	6	13.203	4.182	6	3.787	2.424	-	0.1556
Habitat Means			47.584	20.855		42.417	17.277	-			10.289	5.694		6.953	3.309	-	
Fisher's		Power	0.044		Power-50%	0.003	P-value	0.6981 _y		Power	0.002		Power-50%	0.006	P-value	0.1992	
Stouffer's		Power	0.034		Power-50%	0.000	P-value	0.4013		Power	0.024		Power-50%	0.066	P-value	0.4698	
30196C/30196	2	6	16.667	10.853	6	26.667	6.667	-	0.7415	6	6.480	5.692	6	8.490	4.239	-	0.6850
31252C/31248	2	5	34.000	22.716	6	45.000	13.354	-	0.7294	5	3.454	2.282	6	5.722	2.053	-	0.6626
31252C/31252	2	5	34.000	22.716	6	36.667	10.853	-	0.9331	5	3.454	2.282	6	3.077	1.051	-	0.9421
99826C/33141	2	6	16.667	46.863	6	10.000	10.000	-	0.0001	6	19.577	5.300	6	1.077	1.077	-	0.0006
Habitat Means			61.584	25.787		29.584	10.219	-			8.241	3.889		4.592	2.105	-	
Fisher's		Power	0.015		Power-50%	0.249	P-value	0.7001 _{xy}		Power	---		Power-50%	---	P-value	0.0130	
Stouffer's		Power	0.000		Power-50%	0.394	P-value	0.4318		Power	0.844		Power-50%	0.396	P-value	0.5999	
30196C/30196	3	6	1.667	1.667	5	8.000	5.831	-	0.3603	6	1.613	1.613	5	6.382	4.244	-	0.4160
31252C/31248	3	6	21.667	10.775	6	16.667	9.189	+	0.6735	6	2.167	1.269	6	3.073	1.964	-	0.8254
31252C/31252	3	6	21.667	10.775	5	22.000	19.596	-	0.5443	6	2.167	1.269	5	2.066	1.908	-	0.5413
99826C/33141	3	4	80.000	50.498	6	0.000	0.000	-	0.1830	4	12.605	7.280	6	0.000	0.000	-	0.1817
Habitat Means			31.250	18.429		11.667	8.654	+			4.638	2.858		2.880	2.029	-	
Fisher's		Power	0.018		Power-50%	0.614	P-value	0.4342		Power	0.006		Power-50%	0.302	P-value	0.3472	
Stouffer's		Power	0.021		Power-50%	0.745	P-value	0.7451		Power	0.006		Power-50%	0.381	P-value	0.6704	

y Direction of difference between habitat means is different than direction of overall tests.
x Only one site pair.

Table D-89, Page 1, December 21, 1994

Lottia pelta - abundance (#/m^2)										Lottia Pelta - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	1.667	1.667	5	6.000	6.000	-	0.6845	6	0.387	0.387	5	4.872	4.872	-	0.7226
31252C/31248	1	5	2.000	2.000	6	1.667	1.667	+	0.9099	5	0.402	0.402	6	0.610	0.610	-	0.9403
31252C/31252	1	5	2.000	2.000	6	3.333	3.333	-	0.9686	5	0.402	0.402	6	0.267	0.267	-	0.8869
99826C/33141	1	6	10.000	5.164	6	0.000	0.000	+	0.0332	6	1.573	0.938	6	0.000	0.000	+	0.0524
Habitat Means			3.917	2.708		2.750	2.750	+			0.691	0.532		1.437	1.437	-	
Fisher's		Power	0.024		Power-50%	0.818	P-value	0.1542		Power	0.023		Power-50%	0.505	P-value	0.1974	
Stouffer's		Power	0.003		Power-50%	0.863	P-value	0.5527		Power	0.000		Power-50%	0.464	P-value	0.5509	
30196C/30196	2	6	15.000	10.247	6	15.000	6.708	o	0.4266	6	6.285	5.712	6	6.568	3.316	-	0.2226
31252C/31248	2	5	6.000	4.000	6	38.333	15.366	-	0.0467	5	0.892	0.603	6	5.105	2.167	-	0.0928
31252C/31252	2	5	6.000	4.000	6	20.000	6.831	-	0.0772	5	0.892	0.603	6	2.052	0.754	-	0.0796
99826C/33141	2	6	95.000	29.524	6	5.000	5.000	+	0.0010	6	14.058	4.249	6	0.650	0.650	-	0.0051
Habitat Means			30.500	11.943		19.583	8.476	-			5.532	2.792		3.594	1.722	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0695 _{xy}		Power	---		Power-50%	---	P-value	0.0303 _{xy}	
Stouffer's		Power	0.000		Power-50%	0.716	P-value	0.2487		Power	---		Power-50%	---	P-value	0.0143	
30196C/30196	3	6	0.000	0.000	5	8.000	5.831	-	0.1867	6	0.000	0.000	5	6.382	4.244	-	0.1782
31252C/31248	3	6	13.333	7.149	6	13.333	8.819	o	0.7413	6	2.033	1.241	6	2.645	1.973	-	0.6791
31252C/31252	3	6	13.333	7.149	5	2.000	2.000	-	0.2575	6	2.033	1.241	5	0.130	0.130	-	0.2669
99826C/33141	3	4	40.000	40.000	6	0.000	0.000	+	0.3910	4	5.363	5.363	6	0.000	0.000	-	0.3910
Habitat Means			16.667	13.575		5.833	4.263	+			2.357	1.961		2.289	1.587	-	
Fisher's		Power	0.049		Power-50%	0.388	P-value	0.3875		Power	0.119		Power-50%	0.376	P-value	0.4615 _y	
Stouffer's		Power	0.004		Power-50%	0.499	P-value	0.7737		Power	0.299		Power-50%	0.042	P-value	0.2064	

y Direction of difference between habitat means is different than direction of overall tests.
x Only one site pair.

Table D-89, Page 2, December 21, 1994

Table D-89. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Tectura persona - abundance (#/m^2)										Tectura persona - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	1.667	1.667	5	6.000	4.000	-	0.8818	6	0.643	0.643	5	1.354	0.917	-	0.9068		
31252C/31248	1	5	52.000	22.226	6	58.333	13.017	-	0.8280	5	11.374	7.551	6	6.718	1.723	-	0.4450		
31252C/31252	1	5	52.000	22.226	6	60.000	34.448	-	0.7838	5	11.374	7.551	6	8.143	4.523	-	0.5954		
99826C/33141	1	6	55.000	23.202	6	25.000	15.864	+	0.2841	6	10.882	4.005	6	3.787	2.424	-	0.2250		
Habitat Means			40.167	17.330		37.333	16.832	-			8.568	4.938		5.001	2.397	-			
Fisher's	Power		0.081		Power-50%	0.037	P-value	0.6940	y	Power	0.005		Power-50%	0.018	P-value	0.2013			
Stouffer's	Power		0.065		Power-50%	0.033	P-value	0.4051		Power	0.045		Power-50%	0.058	P-value	0.2944			
30196C/30196	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	2	5	24.000	19.131	6	6.667	4.216	-	0.4333	5	2.398	2.064	6	0.617	0.393	-	0.4544		
31252C/31252	2	5	24.000	19.131	6	16.667	9.189	+	0.8620	5	2.398	2.064	6	1.025	0.689	+	0.7387		
99826C/33141	2	6	28.333	28.333	6	3.333	3.333	-	0.7329	6	2.508	2.508	6	0.122	0.122	-	0.8006		
Habitat Means			19.083	16.649		6.667	4.185	-			1.826	1.659		0.441	0.301	-			
Fisher's	Power		0.095		Power-50%	0.144	P-value	0.4203		Power	0.073		Power-50%	0.090	P-value	0.4167			
Stouffer's	Power		0.060		Power-50%	0.300	P-value	0.3254		Power	0.000		Power-50%	0.003	P-value	0.3133			
30196C/30196	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
31252C/31248	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
99826C/33141	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			

x At least one site pair p-value < 0.00 in opposite direction of overall tests.

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

z Only one site pair.

Tectura scutum - abundance (#/m^2)										Tectura scutum - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
31252C/31248	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
30196C/30196	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	1.128	1.128	-	0.3632		
31252C/31248	2	5	4.000	4.000	6	0.000	0.000	+	0.3739	5	0.164	0.164	6	0.000	0.000	+	0.3739		
31252C/31252	2	5	4.000	4.000	6	0.000	0.000	+	0.3739	5	0.164	0.164	6	0.000	0.000	+	0.3739		
99826C/33141	2	6	3.333	3.333	6	0.000	0.000	-	0.3632	6	0.355	0.355	6	0.000	0.000	+	0.3632		
Habitat Means			2.833	2.833		0.417	0.417	+			0.171	0.171		0.282	0.282	+			
Fisher's	Power		---		Power-50%	---	P-value	0.2304	y	Power	---		Power-50%	---	P-value	0.2304	y		
Stouffer's	Power		---		Power-50%	---	P-value	0.4735		Power	---		Power-50%	---	P-value	0.4735			
30196C/30196	3	6	1.667	1.667	5	0.000	0.000	-	0.3632	6	1.613	1.613	5	0.000	0.000	+	0.3632		
31252C/31248	3	6	3.333	3.333	6	1.667	1.667	-	0.8708	6	0.105	0.105	6	0.220	0.220	-	0.9405		
31252C/31252	3	6	3.333	3.333	5	14.000	14.000	-	0.7254	6	0.105	0.105	5	1.126	1.126	-	0.7468		
99826C/33141	3	4	40.000	26.241	6	0.000	0.000	+	0.1843	4	7.243	5.932	6	0.000	0.000	+	0.1846		
Habitat Means			12.083	8.618		3.917	3.917	+			2.267	1.939		0.337	0.337	+			
Fisher's	Power		0.826		Power-50%	0.815	P-value	0.2166		Power	0.082		Power-50%	0.343	P-value	0.2392			
Stouffer's	Power		0.435		Power-50%	0.861	P-value	0.2176		Power	0.048		Power-50%	0.362	P-value	0.2483			

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

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Table D-89, Page 4, December 21, 1994

Table D-89. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula, Sheltered Rocky, May 1991. (Continued.)

Site Pair	MVD	Balanomorphs - abundance (#/m ²)								Balanomorphs - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	5755.000	2930.101	5	742.000	513.093	-	0.1812	6	308.408	161.858	5	138.556	100.463	+	0.9690
31252C/31248	1	5	4752.000	2892.296	6	3873.333	890.231	-	0.8997	5	160.756	32.322	6	217.678	53.216	-	0.9485
31252C/31252	1	5	4752.000	2892.296	6	16845.000	7494.201	-	0.3004	5	160.756	32.322	6	662.697	347.893	-	0.8465
99826C/33141	1	6	4246.667	1415.198	6	613.333	376.605	-	0.0254	6	194.210	40.812	6	64.967	34.994	+	0.0805
Habitat Means			4876.417	2532.473		5518.417	2318.533				206.033	66.829		270.975	134.142		
Fisher's		Power	---		Power-50%	---		P-value	0.0508 y	Power	0.000		Power-50%	0.000		P-value	0.2472 y
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.1761	Power	0.000		Power-50%	0.000		P-value	0.4760
30196C/30196	2	6	4486.667	2586.229	6	1133.333	566.414	+	0.8396	6	338.095	193.340	6	289.505	189.436	+	0.8865
31252C/31248	2	5	4616.000	1220.773	6	13728.333	4560.150	-	0.1874	5	337.452	93.520	6	1113.950	346.793	-	0.0347
31252C/31252	2	5	4616.000	1220.773	6	22308.334	5069.115	-	0.0096	5	337.452	93.520	6	775.680	286.874	-	0.2241
99826C/33141	2	6	13836.667	4876.930	6	2596.667	1474.428	+	0.0856	6	1041.240	324.113	6	299.992	204.526	+	0.0345
Habitat Means			6888.834	2476.176		9941.667	2917.527				513.560	176.123		619.782	256.907		
Fisher's		Power	---		Power-50%	---		P-value	0.0347 y	Power	0.000		Power-50%	0.000		P-value	0.2636 y
Stouffer's		Power	0.000		Power-50%	0.000		P-value	0.1054	Power	0.000		Power-50%	0.000		P-value	0.8751
30196C/30196	3	6	438.333	418.517	5	332.000	314.617	+	0.7911	6	191.655	178.354	5	343.966	303.937	-	0.6119
31252C/31248	3	6	2888.333	641.152	6	9550.000	3905.467	-	0.3934	6	321.212	82.893	6	798.722	393.360	-	0.1010
31252C/31252	3	6	2888.333	641.152	5	6526.000	4500.236	-	0.9683	6	321.212	82.893	5	275.702	189.326	-	0.8793
99826C/33141	3	4	5295.000	1873.030	6	64.450	33.197	+	0.0184	4	291.582	100.197	6	1.777	0.670	-	0.3670
Habitat Means			2677.500	893.463		4118.113	2188.379				281.415	111.084		355.042	221.823		
Fisher's		Power	0.006		Power-50%	0.002		P-value	0.1121 y	Power	0.000		Power-50%	0.004		P-value	0.2718
Stouffer's		Power	0.007		Power-50%	0.003		P-value	0.5107	Power	0.000		Power-50%	0.006		P-value	0.1458

2. CALCULATION OF OVERALL POWER DERIVED FROM RESULTS. POWER IS CALCULATED FROM DIRECTION OF OVERALL TESTS.
3. Only one site pair.

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Site Pair	MVD	Chthamalus dalli - abundance (#/m ²)								Chthamalus dalli - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
30196C/30196	1	6	28.333	21.357	5	0.000	0.000	+	0.1795	6	0.222	0.163	5	0.000	0.000	+	0.1766
31252C/31248	1	5	92.000	89.521	6	373.333	236.088	-	0.1148	5	1.112	1.095	6	6.098	3.934	-	0.1065
31252C/31252	1	5	92.000	89.521	6	353.333	220.116	-	0.3217	5	1.112	1.095	6	5.262	3.617	-	0.3370
99826C/33141	1	6	30.000	28.048	6	0.000	0.000	+	0.2083	6	0.327	0.327	6	0.000	0.000	+	0.3362
Habitat Means			60.583	57.112		181.667	114.051				0.693	0.670		2.840	1.888		
Fisher's		Power	0.000		Power-50%	0.160		P-value	0.2810	Power	0.000		Power-50%	0.094		P-value	0.2664
Stouffer's		Power	0.000		Power-50%	0.248		P-value	0.5333	Power	0.000		Power-50%	0.147		P-value	0.5251
30196C/30196	2	6	683.333	653.507	6	3.333	3.333	+	0.1494	6	8.668	8.431	6	0.068	0.068	+	0.1989
31252C/31248	2	5	68.000	42.237	6	493.333	403.763	-	0.6560	5	1.096	0.631	6	8.127	6.350	-	0.6924
31252C/31252	2	5	68.000	42.237	6	1403.333	1023.135	-	0.0306	5	1.096	0.631	6	19.287	15.768	-	0.0908
99826C/33141	2	6	0.000	0.000	6	648.883	597.147	-	0.0946	6	0.000	0.000	6	6.744	6.270	-	0.0895
Habitat Means			204.833	184.495		637.221	506.845				2.715	2.423		8.557	7.114		
Fisher's		Power	---		Power-50%	---		P-value	0.0317	Power	---		Power-50%	---		P-value	0.0646
Stouffer's		Power	0.004		Power-50%	0.275		P-value	0.5239	Power	0.007		Power-50%	0.380		P-value	0.5489
30196C/30196	3	6	0.000	0.000	5	0.000	0.000	0	1.0000	6	0.000	0.000	5	0.000	0.000	0	1.0000
31252C/31248	3	6	31.667	26.130	6	55.000	20.777	-	0.2828	6	0.807	0.688	6	1.277	0.564	-	0.2983
31252C/31252	3	6	31.667	26.130	5	30.000	15.811	+	0.3312	6	0.807	0.688	5	0.254	0.138	+	0.4206
99826C/33141	3	4	0.000	0.000	6	0.000	0.000	0	1.0000	4	0.000	0.000	6	0.000	0.000	0	1.0000
Habitat Means			15.834	13.065		21.250	9.147				0.404	0.344		0.383	0.176		
Fisher's		Power	0.000		Power-50%	0.051		P-value	0.5316	Power	0.000		Power-50%	0.022		P-value	0.5312 y
Stouffer's		Power	0.000		Power-50%	0.061		P-value	0.4384	Power	0.000		Power-50%	0.006		P-value	0.7213

2. Only one site pair.

Table D-89, Page 6, December 21, 1994

Table D-89. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula, Sheltered Rocky, May 1991. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P										
30196C/30196	1	6	621.667	289.360	5	486.000	405.828	-	0.9525	6	94.098	49.009	5	143.876	96.563	-	0.9709		
31252C/31248	1	5	322.000	71.652	6	128.333	60.245	+	0.1038	5	54.284	17.785	6	15.653	7.570	+	0.0869		
31252C/31252	1	5	322.000	71.652	6	801.667	588.124	-	0.4418	5	54.284	17.785	6	218.322	181.281	-	0.3958		
99826C/33141	1	6	93.333	62.645	6	283.333	150.459	-	0.4286	6	3.635	2.197	6	57.468	31.074	-	0.2480		
Habitat Means			339.750	123.827		424.833	301.164	+			51.575	21.694		103.830	79.077	-			
Fisher's		Power	0.000		Power-50%	0.003		P-value	0.3971 y	Power	0.002		Power-50%	0.000		P-value	0.2383 y		
Stouffer's		Power	0.000		Power-50%	0.003		P-value	0.3172	Power	0.000		Power-50%	0.000		P-value	0.4331		
30196C/30196	2	6	475.000	289.399	6	65.000	35.567	+	0.2568	6	107.185	76.680	6	10.185	5.239	-	0.4181		
31252C/31248	2	5	90.000	60.581	6	201.667	107.685	-	0.3896	5	13.998	8.442	6	71.473	50.317	-	0.3522		
31252C/31252	2	5	90.000	60.581	6	251.667	111.338	-	0.5630	5	13.998	8.442	6	75.647	35.478	-	0.6640		
99826C/33141	2	6	268.333	168.393	6	1171.667	896.755	-	0.8496	6	55.828	36.413	6	233.618	211.292	-	0.8268		
Habitat Means			230.833	144.739		422.500	287.836	-			47.752	32.494		97.731	75.582	-			
Fisher's		Power	0.004		Power-50%	0.129		P-value	0.4539	Power	0.002		Power-50%	0.088		P-value	0.4419		
Stouffer's		Power	0.005		Power-50%	0.325		P-value	0.6148	Power	0.006		Power-50%	0.239		P-value	0.5187		
30196C/30196	3	6	1.667	1.667	5	0.000	0.000	+	0.3632	6	0.020	0.020	5	0.000	0.000	+	0.3632		
31252C/31248	3	6	53.333	26.916	6	0.000	0.000	+	0.0293	6	27.292	17.775	6	0.000	0.000	+	0.0264		
31252C/31252	3	6	53.333	26.916	5	2.000	2.000	+	0.0678	6	27.292	17.775	5	0.082	0.082	-	0.0645		
99826C/33141	3	4	180.000	135.339	6	56.117	29.772	+	0.5585	4	39.973	34.087	6	1.579	0.671	-	0.4320		
Habitat Means			72.083	47.710		14.529	7.943	-			23.644	17.414		0.415	0.188	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0067	Power	---		Power-50%	---		P-value	0.0049		
Stouffer's		Power	---		Power-50%	0.593		P-value	0.0072	Power	---		Power-50%	---		P-value	0.0064		

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P										
30196C/30196	1	6	4488.333	2400.982	5	116.000	81.154	-	0.0493	6	202.435	116.666	5	8.000	4.873	-	0.0918		
31252C/31248	1	5	4118.000	2697.092	6	3211.667	726.482	+	0.6191	5	103.868	36.895	6	193.125	46.166	-	0.4609		
31252C/31252	1	5	4118.000	2697.092	6	14303.333	6298.856	-	0.2066	5	103.868	36.895	6	426.767	184.353	-	0.5188		
99826C/33141	1	6	3860.000	1407.177	6	140.000	87.216	+	0.0020	6	182.307	44.437	6	4.127	1.924	+	0.0135		
Habitat Means			4146.083	2300.586		4442.750	1798.427	+			148.120	58.723		158.005	59.329	+			
Fisher's		Power	---		Power-50%	---		P-value	0.0025 y	Power	---		Power-50%	---		P-value	0.0273 y		
Stouffer's		Power	---		Power-50%	0.000		P-value	0.0559	Power	0.000		Power-50%	0.000		P-value	0.1672		
30196C/30196	2	6	2975.000	1771.592	6	613.333	471.011	+	0.6632	6	178.845	104.328	6	62.647	52.323	-	0.8581		
31252C/31248	2	5	4044.000	1125.631	6	12056.667	3851.033	-	0.1815	5	310.992	83.527	6	630.307	178.178	-	0.3087		
31252C/31252	2	5	4044.000	1125.631	6	19370.000	4693.650	-	0.0087	5	310.992	83.527	6	625.083	261.787	-	0.4136		
99826C/33141	2	6	10906.667	3318.738	6	737.783	541.167	-	0.0608	6	930.950	286.160	6	58.121	37.407	-	0.0777		
Habitat Means			5492.417	1835.398		8194.446	2389.215	-			432.945	139.386		344.040	132.424	+			
Fisher's		Power	---		Power-50%	---		P-value	0.0352 x	Power	0.000		Power-50%	0.000		P-value	0.3434		
Stouffer's		Power	0.002		Power-50%	0.000		P-value	0.1417	Power	0.002		Power-50%	0.002		P-value	0.6894		
30196C/30196	3	6	3.333	2.108	5	0.000	0.000	+	0.1747	6	0.462	0.293	5	0.000	0.000	+	0.1747		
31252C/31248	3	6	2578.333	584.896	6	8316.667	3093.749	-	0.1407	6	219.763	71.441	6	643.460	292.702	-	0.2621		
31252C/31252	3	6	2578.333	584.896	5	5684.000	3943.514	-	0.9080	6	219.763	71.441	5	234.038	194.431	-	0.5629		
99826C/33141	3	4	4487.500	1520.238	6	8.333	5.426	-	0.0220	4	243.090	88.905	6	0.198	0.127	-	0.0404		
Habitat Means			2411.875	673.035		3502.250	1760.672	+			170.770	58.020		219.424	121.815	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0544 y	Power	---		Power-50%	---		P-value	0.0937 y		
Stouffer's		Power	0.091		Power-50%	0.006		P-value	0.2973	Power	0.075		Power-50%	0.019		P-value	0.3228		

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

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x Difference between habitat means is different than direction of overall tests.
y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-89, Page 8, December 21, 1994

Table D-89. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Lacuna spp. - abundance (#/m^2)										Lacuna spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
31252C/31248	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
30196C/30196	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.003	0.003	-	0.3632		
31252C/31248	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.417	0.417	-			0.000	0.000		0.001	0.001	-			
Fisher's	Power		---		Power-50%		---	P-value	0.4765	Power		---		Power-50%		---	P-value	0.4765	
Stouffer's	Power		---		Power-50%		---	P-value	0.2319	Power		---		Power-50%		---	P-value	0.2319	
30196C/30196	3	6	33.333	33.333	5	346.000	343.505	-	0.5223	6	0.302	0.302	5	1.078	1.058	-	0.5341		
31252C/31248	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
99826C/33141	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			8.333	8.333		86.500	85.876	-			0.076	0.076		0.270	0.265	-			
Fisher's	Power		0.000		Power-50%		---	P-value	0.5535	Power		0.000		Power-50%		---	P-value	0.5584	
Stouffer's	Power		0.000		Power-50%		---	P-value	0.3032	Power		0.000		Power-50%		---	P-value	0.3083	

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

Table D-89, Page 9, December 21, 1994

Littorina spp. - abundance (#/m^2)										Littorina spp. - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	4136.667	1073.265	5	786.000	289.993	-	0.0761	6	229.278	110.934	5	38.190	9.698	-	0.3998		
31252C/31248	1	5	862.000	264.620	6	988.333	186.519	-	0.5671	5	54.288	25.841	6	69.402	9.278	-	0.4297		
31252C/31252	1	5	862.000	264.620	6	3278.333	1930.660	-	0.6775	5	54.288	25.841	6	59.940	23.397	-	0.9202		
99826C/33141	1	6	498.333	181.905	6	555.550	191.550	-	0.4149	6	72.437	44.474	6	20.750	8.211	-	0.0382		
Habitat Means			1589.750	446.103		1402.054	649.670	-			102.573	51.773		47.071	12.646	-			
Fisher's	Power		0.000		Power-50%		0.000	P-value	0.4424xy	Power		0.000		Power-50%		0.000	P-value	0.1170	
Stouffer's	Power		0.000		Power-50%		0.000	P-value	0.8301	Power		0.000		Power-50%		0.000	P-value	0.3352	
30196C/30196	2	6	6186.667	2827.853	6	2101.667	319.504	+	0.8041	6	81.432	54.456	6	56.733	23.280	-	0.5571		
31252C/31248	2	5	1892.000	704.176	6	2831.667	836.203	-	0.5239	5	101.244	40.063	6	91.193	15.823	-	0.8194		
31252C/31252	2	5	1892.000	704.176	6	4873.333	2152.324	-	0.4794	5	101.244	40.063	6	49.627	11.671	+	0.2451		
99826C/33141	2	6	2428.333	949.408	6	1260.183	481.836	+	0.0655	6	87.678	14.149	6	41.217	19.248	+	0.2721		
Habitat Means			3099.750	1296.403		2766.713	947.467	+			92.900	37.183		59.693	17.506	+			
Fisher's	Power		0.000		Power-50%		0.000	P-value	0.2782	Power		0.000		Power-50%		0.000	P-value	0.1291	
Stouffer's	Power		0.000		Power-50%		0.000	P-value	0.5853	Power		0.000		Power-50%		0.000	P-value	0.1413	
30196C/30196	3	6	328.333	308.517	5	2314.000	1538.303	-	0.4797	6	1.053	0.980	5	77.460	70.290	-	0.3968		
31252C/31248	3	6	1326.667	266.867	6	4321.667	1411.128	-	0.0695	6	37.085	6.864	6	69.883	15.102	-	0.1257		
31252C/31252	3	6	1326.667	266.867	5	3340.000	2240.723	-	0.8407	6	37.085	6.864	5	40.326	15.261	-	0.5284		
99826C/33141	3	4	1482.500	749.182	6	410.000	176.745	+	0.7819	4	53.732	22.359	6	8.800	5.852	+	0.6983		
Habitat Means			1116.042	397.858		2596.417	1341.725	-			32.239	9.267		49.117	26.626	-			
Fisher's	Power		0.006		Power-50%		0.002	P-value	0.1383	Power		0.003		Power-50%		0.001	P-value	0.1387	
Stouffer's	Power		---		Power-50%		0.005	P-value	0.0710	Power		---		Power-50%		---	P-value	0.0554	

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

Table D-89, Page 10, December 21, 1994

Table D-89. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	4136.667	1073.265	5	786.000	289.993	+	0.0760	6	229.278	110.934	5	38.190	9.698	+	0.3997		
31252C/31248	1	5	862.000	264.620	6	988.333	186.519	-	0.5670	5	54.288	25.841	6	69.402	9.278	-	0.4296		
31252C/31252	1	5	862.000	264.620	6	3276.667	1929.155	-	0.6775	5	54.288	25.841	6	59.928	23.391	-	0.9202		
99826C/33141	1	6	498.333	181.905	6	552.217	189.247	-	0.4129	6	72.437	44.474	6	20.670	8.183	+	0.0380		
Habitat Means			1589.750	446.103		1400.804	648.729	-			102.573	51.773		47.048	12.638	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.4414	xy	Power	0.000		Power-50%	0.000	P-value	0.1166			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.8301		Power	0.000		Power-50%	0.000	P-value	0.3351			
30196C/30196	2	6	6183.333	2825.639	6	2101.667	319.504	+	0.8432	6	81.405	54.431	6	56.733	23.280	+	0.5618		
31252C/31248	2	5	1890.000	702.567	6	2825.000	835.339	-	0.6121	5	101.174	40.074	6	91.083	15.862	+	0.8207		
31252C/31252	2	5	1890.000	702.567	6	4845.000	2149.736	-	0.5793	5	101.174	40.074	6	49.282	11.590	+	0.2478		
99826C/33141	2	6	2318.333	990.664	6	1100.000	415.524	+	0.5516	6	80.427	19.442	6	38.507	18.507	+	0.3263		
Habitat Means			3070.417	1305.359		2717.917	930.026	+			91.045	38.505		58.901	17.310	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.6788		Power	0.000		Power-50%	0.000	P-value	0.1458			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.5916		Power	0.000		Power-50%	0.000	P-value	0.1452			
30196C/30196	3	6	328.333	308.517	5	2314.000	1538.303	-	0.2940	6	1.053	0.980	5	77.460	70.290	-	0.3968		
31252C/31248	3	6	1065.000	328.966	6	4296.667	1403.780	-	0.2965	6	25.940	5.646	6	69.820	15.100	-	0.0663		
31252C/31252	3	6	1065.000	328.966	5	3338.000	2238.777	-	0.6499	6	25.940	5.646	5	40.312	15.252	-	0.7698		
99826C/33141	3	4	1482.500	749.182	6	403.333	177.848	-	0.7141	4	53.732	22.359	6	8.580	5.894	-	0.6802		
Habitat Means			985.208	428.908		2588.000	1339.677	-			26.666	8.658		49.043	26.634	-			
Fisher's		Power	0.004		Power-50%	0.001	P-value	0.2142		Power	0.002		Power-50%	0.000	P-value	0.1193			
Stouffer's		Power	---		Power-50%	0.002	P-value	0.0710		Power	---		Power-50%	---	P-value	0.0532			

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

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

z Only one site pair.

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
31252C/31248	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	5	0.000	0.000	6	1.667	1.667	-	0.3632	5	0.000	0.000	6	0.012	0.012	-	0.3632		
99826C/33141	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.080	0.080	-	0.3632		
Habitat Means			0.000	0.000		1.250	1.250	-			0.000	0.000		0.023	0.023	-			
Fisher's		Power	---		Power-50%	---	P-value	0.2945		Power	---		Power-50%	---	P-value	0.2945			
Stouffer's		Power	---		Power-50%	---	P-value	0.3479		Power	---		Power-50%	---	P-value	0.3479			
30196C/30196	2	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.027	0.027	6	0.000	0.000	-	0.3632		
31252C/31248	2	5	2.000	2.000	6	6.667	3.333	-	0.3195	5	0.070	0.070	6	0.110	0.059	-	0.4056		
31252C/31252	2	5	2.000	2.000	6	28.333	12.494	-	0.0246	5	0.070	0.070	6	0.345	0.167	-	0.0695		
99826C/33141	2	6	110.000	102.046	6	160.183	81.588	-	0.5484	6	7.252	6.991	6	2.710	1.597	+	0.8172		
Habitat Means			29.333	27.345		48.796	24.354	-			1.855	1.790		0.791	0.456	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0509		Power	0.000		Power-50%	0.070	P-value	0.1820	y		
Stouffer's		Power	0.000		Power-50%	0.348	P-value	0.2815		Power	0.000		Power-50%	0.112	P-value	0.3872			
30196C/30196	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
31252C/31248	3	6	261.667	255.674	6	25.000	12.042	+	0.6428	6	11.145	11.087	6	0.063	0.035	+	0.2588		
31252C/31252	3	6	261.667	255.674	5	2.000	2.000	+	0.0759	6	11.145	11.087	5	0.014	0.014	+	0.0504		
99826C/33141	3	4	0.000	0.000	6	6.667	6.667	-	0.5883	4	0.000	0.000	6	0.220	0.220	-	0.4932		
Habitat Means			130.834	127.837		8.417	5.177	+			5.573	5.544		0.074	0.067	+			
Fisher's		Power	0.000		Power-50%	0.001	P-value	0.2077		Power	---		Power-50%	---	P-value	0.0987			
Stouffer's		Power	0.000		Power-50%	0.002	P-value	0.2089		Power	0.000		Power-50%	0.000	P-value	0.1199			

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

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

z Only one site pair.

Table D-89. Page 11. December 21, 1994

Table D-89. Page 12. December 21, 1994

Table D-89. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	6.667	4.216	5	22.000	15.620	-	0.6898	6	0.070	0.061	5	0.206	0.173	-	0.7859		
31252C/31248	1	5	16.000	16.000	6	76.667	52.957	-	0.3504	5	4.618	4.618	6	10.822	7.487	-	0.5657		
31252C/31252	1	5	16.000	16.000	6	205.000	199.060	-	0.5266	5	4.618	4.618	6	18.442	18.366	-	0.7249		
99826C/33141	1	6	18.333	9.098	6	79.450	41.695	-	0.3741	6	0.837	0.432	6	4.189	2.218	-	0.4827		
Habitat Means			14.250	11.329		95.779	77.333	-			2.536	2.432		8.415	7.061	-			
Fisher's			Power	0.034		Power-50%	0.911	P-value	0.1683		Power	0.001		Power-50%	0.460	P-value	0.3203		
Stouffer's			Power	0.055		Power-50%	0.938	P-value	0.1473		Power	0.004		Power-50%	0.426	P-value	0.2535		
30196C/30196	2	6	301.667	175.507	6	193.333	79.274	+	0.7390	6	6.183	3.667	6	11.178	7.635	-	0.1639		
31252C/31248	2	5	428.000	264.280	6	891.667	514.506	-	0.6558	5	106.674	47.777	6	58.242	36.072	-	0.4336		
31252C/31252	2	5	428.000	264.280	6	2915.000	1679.910	-	0.4671	5	106.674	47.777	6	141.728	65.956	-	0.3787		
99826C/33141	2	6	805.000	439.005	6	320.567	104.836	+	0.6264	6	252.178	119.777	6	21.199	10.623	+	0.0815		
Habitat Means			490.667	285.768		1080.142	594.632	-			117.927	54.750		58.087	30.072	+			
Fisher's			Power	0.000		Power-50%	0.000	P-value	0.5570		Power	0.000		Power-50%	0.000	P-value	0.2616		
Stouffer's			Power	0.000		Power-50%	0.000	P-value	0.4350		Power	0.000		Power-50%	0.000	P-value	0.8271		
30196C/30196	3	6	13.333	11.450	5	196.000	173.971	-	0.8211	6	0.090	0.086	5	21.596	20.673	-	0.2179		
31252C/31248	3	6	1186.667	635.860	6	2056.667	773.389	-	0.2627	6	157.243	53.549	6	42.818	16.526	+	0.0530		
31252C/31252	3	6	1186.667	635.860	5	1772.000	893.339	-	0.4701	6	157.243	53.549	5	32.090	15.686	+	0.1781		
99826C/33141	3	4	792.500	457.664	6	556.117	247.587	+	0.7837	4	1429.193	1362.071	6	24.929	15.982	+	0.8691		
Habitat Means			794.792	435.209		1145.196	522.072	-			435.942	367.314		30.358	17.217	+			
Fisher's			Power	0.001		Power-50%	0.052	P-value	0.2844		Power	---		Power-50%	---	P-value	0.0819		
Stouffer's			Power	0.000		Power-50%	0.062	P-value	0.1730		Power	0.001		Power-50%	0.011	P-value	0.3433		

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

Table D-89, Page 13. December 21, 1994

Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	3.333	3.333	5	2.000	2.000	+	0.9695	6	0.005	0.005	5	0.000	0.000	+	0.4328		
31252C/31248	1	5	0.000	0.000	6	13.333	9.888	-	0.1806	5	0.000	0.000	6	0.023	0.018	-	0.1812		
31252C/31252	1	5	0.000	0.000	6	11.667	11.667	-	0.3632	5	0.000	0.000	6	0.032	0.032	-	0.3632		
99826C/33141	1	6	0.000	0.000	6	36.667	25.386	-	0.1764	6	0.000	0.000	6	0.042	0.033	-	0.1805		
Habitat Means			0.833	0.833		15.917	12.235	-			0.001	0.001		0.024	0.021	-			
Fisher's			Power	---		Power-50%	---	P-value	0.0718		Power	---		Power-50%	---	P-value	0.0954		
Stouffer's			Power	0.921		Power-50%	---	P-value	0.1543		Power	0.000		Power-50%	---	P-value	0.3390		
30196C/30196	2	6	1350.000	1150.513	6	493.333	179.233	+	0.8332	6	1.648	1.395	6	0.658	0.223	+	0.7967		
31252C/31248	2	5	2.000	2.000	6	0.000	0.000	+	0.3739	5	0.001	0.001	6	0.000	0.000	+	0.3739		
31252C/31252	2	5	2.000	2.000	6	76.667	48.557	-	0.3455	5	0.000	0.000	6	0.132	0.084	-	0.1901		
99826C/33141	2	6	281.667	192.569	6	178.883	144.383	+	0.3453	6	0.230	0.112	6	0.288	0.208	-	0.4753		
Habitat Means			408.917	336.771		187.221	93.043	+			0.470	0.377		0.270	0.129	-			
Fisher's			Power	0.021		Power-50%	0.255	P-value	0.3425		Power	0.045		Power-50%	0.238	P-value	0.3414 y		
Stouffer's			Power	0.008		Power-50%	0.365	P-value	0.3756		Power	0.000		Power-50%	0.368	P-value	0.5409		
30196C/30196	3	6	120.000	102.404	5	2866.000	2344.025	-	0.1686	6	0.117	0.101	5	4.672	3.909	-	0.1987		
31252C/31248	3	6	0.000	0.000	6	21.667	9.098	-	0.0272	6	0.000	0.000	6	0.017	0.007	-	0.0284		
31252C/31252	3	6	0.000	0.000	5	6.000	6.000	-	0.3739	6	0.000	0.000	5	0.004	0.004	-	0.3739		
99826C/33141	3	4	497.500	301.783	6	62.783	39.987	+	0.2289	4	0.610	0.471	6	0.037	0.033	+	0.1089		
Habitat Means			154.375	101.047		739.113	599.778	-			0.182	0.143		1.183	0.988	-			
Fisher's			Power	---		Power-50%	---	P-value	0.0287		Power	---		Power-50%	---	P-value	0.0346		
Stouffer's			Power	---		Power-50%	0.006	P-value	0.0089		Power	---		Power-50%	---	P-value	0.0119		

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

Table D-89, Page 14. December 21, 1994

Table D-89. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Pagurus spp. - abundance (#/m ²)										Pagurus spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
31252C/31248	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
30196C/30196	2	6	3.333	3.333	6	1.667	1.667	+	0.8708	6	1.663	1.663	6	0.412	0.412	-	0.9103		
31252C/31248	2	5	0.000	0.000	6	3.333	3.333	-	0.3632	5	0.000	0.000	6	0.118	0.118	-	0.3632		
31252C/31252	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	2	6	5.000	5.000	6	0.000	0.000	-	0.3632	6	0.143	0.143	6	0.000	0.000	-	0.3632		
Habitat Means			2.083	2.083		1.250	1.250	-			0.452	0.452		0.133	0.133	-			
Fisher's	Power		---		Power-50%		---	P-value	0.5516	Power		---		Power-50%		---	P-value	0.5613	
Stouffer's	Power		---		Power-50%		---	P-value	0.5899	Power		---		Power-50%		---	P-value	0.6054	
30196C/30196	3	6	0.000	0.000	5	2.000	2.000	-	0.3739	6	0.000	0.000	5	0.001	0.001	-	0.3739		
31252C/31248	3	6	3.333	2.108	6	86.667	76.840	-	0.2844	6	0.038	0.025	6	3.500	3.249	-	0.3032		
31252C/31252	3	6	3.333	2.108	5	4.000	2.449	-	0.8402	6	0.038	0.025	5	0.390	0.390	-	0.9935		
99826C/33141	3	4	112.500	112.500	6	0.000	0.000	+	0.3910	4	1.200	1.200	6	0.000	0.000	-	0.3910		
Habitat Means			29.792	29.179		23.167	20.322	-			0.319	0.313		0.973	0.910	-			
Fisher's	Power		0.242		Power-50%		0.822	P-value	0.3078	Power	0.005		Power-50%		0.777	P-value	0.3456		
Stouffer's	Power		0.067		Power-50%		0.960	P-value	0.1102	Power	0.113		Power-50%		0.342	P-value	0.1277		

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

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

Only one site pair.

Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
31252C/31248	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%		---	P-value	0.6980	Power		---		Power-50%		---	P-value	0.6980	
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000	
30196C/30196	2	6	3.333	3.333	6	6.667	6.667	-	0.7246	6	1.858	1.858	6	2.755	2.755	-	0.9771		
31252C/31248	2	5	4.000	4.000	6	3.333	2.108	+	0.9464	5	2.036	2.036	6	1.142	0.728	+	0.7186		
31252C/31252	2	5	4.000	4.000	6	18.333	14.472	-	0.1539	5	2.036	2.036	6	13.022	8.166	-	0.2244		
99826C/33141	2	6	6.667	6.667	6	0.000	0.000	-	0.4822	6	1.663	1.663	6	0.000	0.000	+	0.5037		
Habitat Means			4.500	4.500		7.083	5.812	-			1.898	1.898		4.230	2.912	-			
Fisher's	Power		0.009		Power-50%		---	P-value	0.3429	Power	0.004		Power-50%		---	P-value	0.5069		
Stouffer's	Power		0.000		Power-50%		---	P-value	0.2390	Power	0.012		Power-50%		---	P-value	0.4053		
30196C/30196	3	6	0.000	0.000	5	2.000	2.000	-	0.3739	6	0.000	0.000	5	1.784	1.784	-	0.3739		
31252C/31248	3	6	10.000	6.831	6	21.667	8.724	-	0.1496	6	2.100	1.328	6	35.380	20.310	-	0.0573		
31252C/31252	3	6	10.000	6.831	5	18.000	18.000	-	0.8481	6	2.100	1.328	5	25.468	25.468	-	0.8520		
99826C/33141	3	4	2.500	2.500	6	0.000	0.000	+	0.3910	4	0.527	0.527	6	0.000	0.000	-	0.3910		
Habitat Means			5.625	4.041		10.417	7.181	-			1.182	0.796		15.658	11.891	-			
Fisher's	Power		0.475		Power-50%		0.605	P-value	0.2199	Power	0.700		Power-50%		0.793	P-value	0.1263		
Stouffer's	Power		---		Power-50%		0.672	P-value	0.0815	Power		---		Power-50%		---	P-value	0.0539	

Table D-89. Page 15. December 21, 1994

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

Table D-89. Page 15. December 21, 1994

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-89. Page 16. December 21, 1994

Table D-89. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Nucella lima - abundance (#/m^2)										Nucella lima - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
31252C/31248	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
30196C/30196	2	6	3.333	3.333	6	6.667	6.667	-	0.7246	6	1.858	1.858	6	2.755	2.755	-	0.9771		
31252C/31248	2	5	4.000	4.000	6	3.333	2.108	-	0.9464	5	2.036	2.036	6	1.142	0.728	-	0.7186		
31252C/31252	2	5	4.000	4.000	6	18.333	14.472	-	0.1539	5	2.036	2.036	6	13.022	8.166	-	0.2244		
99826C/33141	2	6	6.667	6.667	6	0.000	0.000	+	0.4822	6	1.663	1.663	6	0.000	0.000	+	0.5037		
Habitat Means			4.500	4.500		7.083	5.812	-			1.898	1.898		4.230	2.912	-			
Fisher's	Power		0.010		Power-50%	---	P-value	0.3429		Power	0.003		Power-50%	---	P-value	0.5069			
Stouffer's	Power		0.000		Power-50%	---	P-value	0.2390		Power	0.011		Power-50%	---	P-value	0.4053			
30196C/30196	3	6	0.000	0.000	5	2.000	2.000	-	0.3739	6	0.000	0.000	5	1.784	1.784	-	0.3739		
31252C/31248	3	6	10.000	6.831	6	21.667	8.724	-	0.1496	6	2.100	1.328	6	35.380	20.310	-	0.0573		
31252C/31252	3	6	10.000	6.831	5	18.000	18.000	-	0.8481	6	2.100	1.328	5	25.468	25.468	-	0.8520		
99826C/33141	3	4	2.500	2.500	6	0.000	0.000	+	0.3910	4	0.527	0.527	6	0.000	0.000	+	0.3910		
Habitat Means			5.625	4.041		10.417	7.181	-			1.182	0.796		15.658	11.891	-			
Fisher's	Power		0.475		Power-50%	0.579	P-value	0.2199		Power	0.689		Power-50%	0.811	P-value	0.1263			
Stouffer's	Power		---		Power-50%	0.643	P-value	0.0815		Power	---		Power-50%	---	P-value	0.0539			

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

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

z Only one site pair.

Table D-89, Page 17, December 21, 1994

Nucella lamellosa - abundance (#/m^2)										Nucella lamellosa - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
31252C/31248	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
30196C/30196	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31248	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
30196C/30196	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
31252C/31248	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
99826C/33141	3	4	0.000	0.000	6	0.000	0.000	o	1.0000	4	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.6980		Power	---		Power-50%	---	P-value	0.6980			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			

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

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

z Only one site pair.

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Table D-89. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Amphipoda - abundance (#/m ²)										Amphipoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	5	4.000	4.000	-	0.3739	6	0.000	0.000	5	0.030	0.030	-	0.3862		
31252C/31248	1	5	2.000	2.000	6	0.000	0.000	+	0.3739	5	0.014	0.014	6	0.000	0.000	-	0.4609		
31252C/31252	1	5	2.000	2.000	6	0.000	0.000	-	0.3739	5	0.014	0.014	6	0.000	0.000	-	0.4609		
99826C/33141	1	6	46.667	46.667	6	53.333	53.333	-	0.9872	6	0.098	0.098	6	0.356	0.356	-	0.8456		
Habitat Means			12.667	12.667		14.333	14.333	-			0.032	0.032		0.097	0.097	-			
Fisher's		Power	---		Power-50%	---	P-value	0.6926		Power	---		Power-50%	---	P-value	0.6407			
Stouffer's		Power	---		Power-50%	---	P-value	0.5059		Power	---		Power-50%	---	P-value	0.4582			
30196C/30196	2	6	46.667	22.161	6	31.667	25.874	+	0.4795	6	0.665	0.326	6	0.068	0.036	+	0.2974		
31252C/31248	2	5	0.000	0.000	6	1.667	1.667	-	0.3632	5	0.000	0.000	6	0.001	0.001	-	0.3632		
31252C/31252	2	5	0.000	0.000	6	5.000	3.416	-	0.1784	5	0.000	0.000	6	0.053	0.053	-	0.3283		
99826C/33141	2	6	76.667	74.685	6	11.850	8.785	+	0.8385	6	0.197	0.195	6	0.000	0.000	+	0.2715		
Habitat Means			30.834	24.212		12.546	9.935	-			0.216	0.130		0.031	0.023	-			
Fisher's		Power	0.377		Power-50%	0.006	P-value	0.2735 y		Power	0.001		Power-50%	0.004	P-value	0.3803			
Stouffer's		Power	0.346		Power-50%	0.009	P-value	0.3743		Power	0.000		Power-50%	0.002	P-value	0.4417			
30196C/30196	3	6	158.333	44.528	5	276.000	111.786	-	0.9176	6	2.527	0.841	5	5.338	2.106	-	0.8678		
31252C/31248	3	6	176.667	166.707	6	115.000	62.115	+	0.4396	6	0.478	0.394	6	1.030	0.596	-	0.5170		
31252C/31252	3	6	176.667	166.707	5	60.000	37.947	+	0.6967	6	0.478	0.394	5	0.392	0.263	+	0.6122		
99826C/33141	3	4	452.500	429.484	6	40.000	27.325	+	0.3867	4	1.940	1.904	6	0.094	0.084	+	0.4151		
Habitat Means			241.042	201.857		122.750	59.793	+			1.356	0.883		1.714	0.762	+			
Fisher's		Power	0.007		Power-50%	0.101	P-value	0.2902		Power	0.007		Power-50%	0.080	P-value	0.5101 y			
Stouffer's		Power	0.011		Power-50%	0.285	P-value	0.3156		Power	0.000		Power-50%	0.006	P-value	0.5777			

Isopoda - abundance (#/m ²)										Isopoda - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	3.333	3.333	5	0.000	0.000	+	0.3632	6	0.001	0.001	5	0.000	0.000	+	0.3632		
31252C/31248	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	0.000	0.000	6	29.633	29.633	-	0.3632	6	0.000	0.000	6	0.047	0.047	-	0.3632		
Habitat Means			0.833	0.833		7.408	7.408	+			0.000	0.000		0.012	0.012	+			
Fisher's		Power	---		Power-50%	---	P-value	0.5820 y		Power	---		Power-50%	---	P-value	0.5820 y			
Stouffer's		Power	---		Power-50%	---	P-value	0.2527		Power	---		Power-50%	---	P-value	0.2527			
30196C/30196	2	6	93.333	51.618	6	5.000	3.416	+	0.1216	6	6.749	4.270	6	0.010	0.007	-	0.0452		
31252C/31248	2	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
31252C/31252	2	5	0.000	0.000	6	1.667	1.667	-	0.3632	5	0.000	0.000	6	0.001	0.001	-	0.3632		
99826C/33141	2	6	5.000	2.236	6	0.000	0.000	+	0.0756	6	0.010	0.010	6	0.000	0.000	-	0.2710		
Habitat Means			24.583	13.464		1.667	1.271	+			1.690	1.070		0.003	0.002	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0834		Power	---		Power-50%	---	P-value	0.0999			
Stouffer's		Power	0.000		Power-50%	0.053	P-value	0.1461		Power	---		Power-50%	---	P-value	0.0853			
30196C/30196	3	6	311.667	188.121	5	194.000	161.697	+	0.1794	6	3.480	1.510	5	0.418	0.371	+	0.0196		
31252C/31248	3	6	0.000	0.000	6	3.333	2.108	-	0.1747	6	0.000	0.000	6	0.002	0.002	-	0.2865		
31252C/31252	3	6	0.000	0.000	5	8.000	5.831	-	0.1867	6	0.000	0.000	5	0.018	0.018	-	0.3290		
99826C/33141	3	4	55.000	51.720	6	0.000	0.000	+	0.2248	4	0.420	0.413	6	0.000	0.000	+	0.2327		
Habitat Means			91.667	59.960		51.333	42.409	-			0.975	0.481		0.110	0.098	+			
Fisher's		Power	0.062		Power-50%	0.003	P-value	0.2619 y		Power	---		Power-50%	---	P-value	0.0762			
Stouffer's		Power	0.016		Power-50%	0.000	P-value	0.5262		Power	0.000		Power-50%	0.000	P-value	0.1309			

y Direction of difference between Habitat Means is different than direction of overall tests.
z Only one site pair.

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

Table D-89, Page 20. December 21, 1994

Table D-89. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Errant polychaetes - abundance (#/m ²)										Errant polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	1.667	1.667	5	2.000	2.000	-	0.9000	6	0.002	0.002	5	0.000	0.000	+	0.4675		
31252C/31248	1	5	0.000	0.000	6	25.000	25.000	-	0.3632	5	0.000	0.000	6	0.012	0.012	-	0.3632		
31252C/31252	1	5	0.000	0.000	6	1.667	1.667	-	0.3632	5	0.000	0.000	6	0.001	0.001	-	0.3632		
99826C/33141	1	6	0.000	0.000	6	44.267	35.595	-	0.0978	6	0.000	0.000	6	0.062	0.039	-	0.1554		
Habitat Means			0.417	0.417		18.234	16.066	-			0.001	0.001		0.019	0.013	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0706	Power	0.159		Power-50%	---		P-value	0.1316		
Stouffer's		Power	0.803		Power-50%	---		P-value	0.1657	Power	0.082		Power-50%	---		P-value	0.3944		
30196C/30196	2	6	338.333	235.986	6	128.333	82.681	-	0.8945	6	2.190	1.209	6	0.087	0.026	+	0.5147		
31252C/31248	2	5	0.000	0.000	6	16.667	14.757	-	0.1988	5	0.000	0.000	6	0.102	0.102	-	0.3316		
31252C/31252	2	5	0.000	0.000	6	20.000	16.125	-	0.0990	5	0.000	0.000	6	0.075	0.042	-	0.0781		
99826C/33141	2	6	86.667	76.754	6	141.300	99.216	-	0.6513	6	0.200	0.177	6	0.192	0.120	+	0.6366		
Habitat Means			106.250	78.185		76.575	53.195	-			0.598	0.347		0.114	0.073	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0803	Power	0.073		Power-50%	0.001		P-value	0.1779		
Stouffer's		Power	0.225		Power-50%	0.007		P-value	0.1323	Power	0.072		Power-50%	0.002		P-value	0.3005		
30196C/30196	3	6	130.000	50.990	5	346.000	120.524	-	0.3976	6	3.014	1.955	5	4.911	3.245	-	0.9101		
31252C/31248	3	6	35.000	26.300	6	208.333	116.115	-	0.0632	6	0.108	0.095	6	0.400	0.245	-	0.4107		
31252C/31252	3	6	35.000	26.300	5	74.000	44.677	-	0.3970	6	0.108	0.095	5	0.250	0.133	-	0.3877		
99826C/33141	3	4	115.000	75.884	6	1061.117	418.154	-	0.0644	4	1.960	1.386	6	1.403	0.983	-	0.4753		
Habitat Means			78.750	44.869		422.363	174.868	-			1.298	0.883		1.741	1.152	-			
Fisher's		Power	---		Power-50%	---		P-value	0.0094	Power	0.000		Power-50%	0.306		P-value	0.3803		
Stouffer's		Power	---		Power-50%	0.553		P-value	0.0235	Power	0.000		Power-50%	0.745		P-value	0.2325		

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Sedentary polychaetes - abundance (#/m ²)										Sedentary polychaetes - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	0.000	0.000	5	2.000	2.000	-	0.3739	6	0.000	0.000	5	0.002	0.002	-	0.3739		
31252C/31248	1	5	0.000	0.000	6	3.333	3.333	-	0.3632	5	0.000	0.000	6	0.005	0.005	-	0.3632		
31252C/31252	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
99826C/33141	1	6	5.000	3.416	6	3.333	3.333	+	0.6152	6	0.000	0.000	6	0.002	0.002	-	0.5438		
Habitat Means			1.250	0.854		2.167	2.167	-			0.000	0.000		0.002	0.002	-			
Fisher's		Power	0.986		Power-50%	0.060		P-value	0.3519	Power	0.989		Power-50%	0.125		P-value	0.2159		
Stouffer's		Power	0.982		Power-50%	0.015		P-value	0.1348	Power	0.985		Power-50%	0.000		P-value	0.1179		
30196C/30196	2	6	445.000	217.895	6	618.333	422.969	-	0.7532	6	0.317	0.188	6	0.423	0.310	-	0.7807		
31252C/31248	2	5	16.000	9.798	6	1.667	1.667	-	0.2742	5	0.012	0.008	6	0.000	0.000	+	0.1990		
31252C/31252	2	5	16.000	9.798	6	1.667	1.667	-	0.2742	5	0.012	0.008	6	0.000	0.000	+	0.1990		
99826C/33141	2	6	305.000	265.867	6	44.650	20.918	+	0.7607	6	0.237	0.206	6	0.033	0.016	+	0.7593		
Habitat Means			195.500	125.840		166.579	111.805	+			0.145	0.103		0.114	0.082	+			
Fisher's		Power	0.120		Power-50%	0.322		P-value	0.2117	Power	0.224		Power-50%	0.162		P-value	0.1443		
Stouffer's		Power	0.131		Power-50%	0.441		P-value	0.2514	Power	0.200		Power-50%	0.186		P-value	0.1958		
30196C/30196	3	6	1303.333	1168.420	5	2302.000	1813.892	-	0.1365	6	1.898	1.829	5	1.266	0.692	+	0.1727		
31252C/31248	3	6	50.000	34.157	6	8.333	5.426	+	0.6570	6	0.038	0.034	6	0.002	0.002	+	0.3839		
31252C/31252	3	6	50.000	34.157	5	2.000	2.000	+	0.3680	6	0.038	0.034	5	0.000	0.000	-	0.2178		
99826C/33141	3	4	857.500	493.024	6	2607.233	1653.759	-	0.8050	4	0.738	0.597	6	2.122	1.220	-	0.6348		
Habitat Means			565.208	432.440		1229.892	868.769	-			0.678	0.624		0.848	0.479	+			
Fisher's		Power	0.000		Power-50%	0.163		P-value	0.3961	Power	---		Power-50%	---		P-value	0.0989		
Stouffer's		Power	0.000		Power-50%	0.334		P-value	0.2452	Power	---		Power-50%	---		P-value	0.0280		

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

Table D-89, Page 21, December 21, 1994

Table D-89. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Sheltered Rocky. May 1991. (Continued.)

Oligochaeta - abundance (#/m ²)										Oligochaeta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	8.333	4.014	5	194.000	179.154	-	0.3618	6	0.004	0.003	5	0.006	0.006	-	0.8018		
31252C/31248	1	5	0.000	0.000	6	46.667	33.333	-	0.1770	5	0.000	0.000	6	0.067	0.042	-	0.1747		
31252C/31252	1	5	0.000	0.000	6	40.000	38.035	-	0.2127	5	0.000	0.000	6	0.023	0.020	-	0.1877		
99826C/33141	1	6	2033.333	1969.730	6	986.300	588.493	+	0.7282	6	0.830	0.804	6	0.752	0.477	+	0.8942		
Habitat Means			510.417	493.436		316.742	209.754	-			0.209	0.202		0.212	0.136	-			
Fisher's	Power	---			Power-50%	---		P-value	0.0912 y	Power	0.092		Power-50%	0.005		P-value	0.1256		
Stouffer's	Power	---			Power-50%	0.011		P-value	0.0372	Power	---		Power-50%	---		P-value	0.0974		
30196C/30196	2	6	1646.667	875.388	6	838.333	438.128	-	0.1968	6	0.602	0.343	6	0.700	0.455	-	0.7828		
31252C/31248	2	5	488.000	416.094	6	86.667	44.322	+	0.5377	5	0.388	0.320	6	0.019	0.013	-	0.3269		
31252C/31252	2	5	488.000	416.094	6	530.000	344.229	-	0.9485	5	0.388	0.320	6	0.157	0.077	-	0.5378		
99826C/33141	2	6	533.333	285.116	6	372.600	218.722	+	0.7953	6	0.162	0.075	6	0.075	0.075	-	0.8090		
Habitat Means			789.000	498.173		456.900	261.350	+			0.385	0.265		0.238	0.155	-			
Fisher's	Power	0.072			Power-50%	0.215		P-value	0.2384	Power	0.148		Power-50%	0.221		P-value	0.3379		
Stouffer's	Power	---			Power-50%	0.471		P-value	0.0928	Power	0.329		Power-50%	0.274		P-value	0.3179		
30196C/30196	3	6	795.000	630.453	5	2822.000	2237.490	-	0.1782	6	0.555	0.493	5	1.094	0.793	-	0.5909		
31252C/31248	3	6	263.333	204.037	6	293.333	221.083	-	0.5752	6	0.728	0.720	6	0.245	0.225	-	0.6130		
31252C/31252	3	6	263.333	204.037	5	132.000	95.362	+	0.8847	6	0.728	0.720	5	0.182	0.182	-	0.5859		
99826C/33141	3	4	4845.000	4841.667	6	1946.117	590.557	+	0.1185	4	1.845	1.845	6	0.543	0.311	+	0.2272		
Habitat Means			1541.667	1470.049		1298.363	786.123	+			0.964	0.945		0.516	0.378	+			
Fisher's	Power	0.041			Power-50%	0.159		P-value	0.4191	Power	0.050		Power-50%	0.099		P-value	0.2742		
Stouffer's	Power	0.104			Power-50%	0.340		P-value	0.8811	Power	0.181		Power-50%	0.195		P-value	0.4658		

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

Table D-89. Page 21. December 21, 1996

Total Invertebrates - abundance (#/m ²)										Total Invertebrates - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
30196C/30196	1	6	10055.000	3607.135	5	2036.000	858.502	+	0.0175	6	542.680	153.631	5	189.221	102.910	-	0.1546		
31252C/31248	1	5	5762.000	2999.385	6	5251.667	1145.567	+	0.6881	5	233.420	55.446	6	305.745	58.224	-	0.5899		
31252C/31252	1	5	5762.000	2999.385	6	20568.334	9606.289	-	0.2224	5	233.420	55.446	6	750.609	383.644	-	0.9514		
99826C/33141	1	6	6966.667	2153.279	6	2597.800	701.954	+	0.1673	6	281.709	60.635	6	95.210	37.958	-	0.0342		
Habitat Means			7136.417	2939.796		7613.450	3078.078	+			322.807	81.290		335.196	145.684	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0322 y	Power	---		Power-50%	---		P-value	0.0545 y		
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0385	Power	0.000		Power-50%	0.000		P-value	0.1517		
30196C/30196	2	6	15981.667	7749.838	6	6266.667	1253.527	+	0.4767	6	465.655	253.860	6	382.254	193.475	+	0.8205		
31252C/31248	2	5	7722.000	1559.072	6	17688.334	5138.440	-	0.2092	5	554.844	116.113	6	1271.167	340.879	-	0.0690		
31252C/31252	2	5	7722.000	1559.072	6	30963.334	8021.627	-	0.0293	5	554.844	116.113	6	984.042	349.638	-	0.2692		
99826C/33141	2	6	18850.000	6193.258	6	6380.033	2182.955	+	0.0310	6	1410.891	327.333	6	364.934	201.617	+	0.0067		
Habitat Means			12568.917	4265.310		15324.592	4149.137	-			746.559	203.355		750.599	271.402	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0946x	Power	---		Power-50%	---		P-value	0.0946xy		
Stouffer's	Power	0.000			Power-50%	0.000		P-value	0.2633	Power	0.000		Power-50%	0.000		P-value	0.8058		
30196C/30196	3	6	5081.667	2016.286	5	19048.000	11869.293	-	0.0702	6	216.110	183.023	5	500.959	330.352	-	0.0400		
31252C/31248	3	6	6180.000	1399.686	6	17661.666	5699.951	-	0.1163	6	522.782	122.406	6	956.833	401.953	-	0.6527		
31252C/31252	3	6	6180.000	1399.686	5	12646.000	6404.923	-	0.3933	6	522.782	122.406	5	393.977	184.829	-	0.6238		
99826C/33141	3	4	18225.000	5938.744	6	8257.817	2731.515	+	0.2196	4	1808.111	1423.965	6	43.735	21.966	+	0.0029		
Habitat Means			8916.667	2688.601		14403.371	6676.421	-			767.446	462.950		473.876	234.775	+			
Fisher's	Power	---			Power-50%	---		P-value	0.0442	Power	---		Power-50%	---		P-value	0.0392x		
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0080	Power	0.000		Power-50%	0.000		P-value	0.9295		

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

Table D-90. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)										Lottidae - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	26.667	14.757	6	0.000	0.000	+	0.0362	6	6.420	3.394	6	0.000	0.000	+	0.0270
Habitat Means			13.334	7.379		0.000	0.000	+			3.210	1.697		0.000	0.000		
Fisher's		Power	---		Power-50%	---	P-value	0.0516		Power	---		Power-50%	---	P-value	0.0405	
Stouffer's		Power	---		Power-50%	---	P-value	0.0183		Power	---		Power-50%	---	P-value	0.0136	
13.1C/13.1	2	6	5.000	3.416	6	3.333	3.333	+	0.6152	6	2.775	1.886	6	0.683	0.683	+	0.4082
94935C/31288	2	6	33.333	21.082	6	0.000	0.000	+	0.1747	6	3.080	2.869	6	0.000	0.000	+	0.2278
Habitat Means			19.167	12.249		1.667	1.667	-			2.928	2.378		0.342	0.342	-	
Fisher's		Power	0.359		Power-50%	0.670	P-value	0.1240		Power	0.226		Power-50%	0.219	P-value	0.1107	
Stouffer's		Power	---		Power-50%	0.448	P-value	0.0828		Power	0.056		Power-50%	0.142	P-value	0.1045	
13.1C/13.1	3	6	38.333	17.013	6	33.333	22.161	+	0.8979	6	15.782	9.684	6	7.168	5.141	+	0.3142
94935C/31288	3	6	60.000	45.019	5	0.000	0.000	+	0.1531	6	4.817	3.414	5	0.000	0.000	+	0.5879
Habitat Means			49.167	31.016		16.667	11.081	+			10.300	6.549		3.584	2.571	+	
Fisher's		Power	0.181		Power-50%	0.239	P-value	0.1502		Power	0.157		Power-50%	0.168	P-value	0.1882	
Stouffer's		Power	---		Power-50%	0.105	P-value	0.0758		Power	0.040		Power-50%	0.069	P-value	0.2727	

Lottia pelta - abundance (#/m ²)										Lottia pelta - biomass (g/m ²)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	1.667	1.667	6	0.000	0.000	-	0.3632	6	0.462	0.462	6	0.000	0.000	+	0.3632
Habitat Means			0.834	0.834		0.000	0.000	-			0.231	0.231		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's		Power	---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.923	0.923	6	0.000	0.000	+	0.3632
Habitat Means			1.667	1.667		0.000	0.000	-			0.462	0.462		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's		Power	---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821	
13.1C/13.1	3	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.468	0.468	6	0.000	0.000	+	0.3632
94935C/31288	3	6	25.000	19.279	5	0.000	0.000	+	0.0942	6	2.983	2.004	5	0.000	0.000	-	0.0783
Habitat Means			13.334	10.473		0.000	0.000	+			1.726	1.236		0.000	0.000	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0493		Power	---		Power-50%	---	P-value	0.0423	
Stouffer's		Power	---		Power-50%	0.148	P-value	0.0419		Power	---		Power-50%	---	P-value	0.0347	

1 Only one site pair.

Table D-90. Page 2. December 21, 1994

Table D-90. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Tectura persona - abundance (#/m^2)								Tectura persona - biomass (g/m^2)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	20.000	14.142	6	0.000	0.000	+	0.0389	6	4.540	3.292	6	0.000	0.000	+	0.0285
Habitat Means			10.000	7.071		0.000	0.000	+			2.270	1.646		0.000	0.000	+	
Fisher's	Power		---		Power-50%	---	P-value	0.0548		Power	---		Power-50%	---	P-value	0.0424	
Stouffer's	Power		---		Power-50%	---	P-value	0.0196		Power	---		Power-50%	---	P-value	0.0144	
13.1C/13.1	2	6	5.000	3.416	6	3.333	3.333	+	0.6899	6	2.775	1.886	6	0.683	0.683	+	0.5097
94935C/31288	2	6	3.333	3.333	6	0.000	0.000	+	0.4276	6	0.880	0.880	6	0.000	0.000	+	0.3632
Habitat Means			4.167	3.375		1.667	1.667	+			1.828	1.383		0.342	0.342	+	
Fisher's	Power		0.619		Power-50%	0.635	P-value	0.2660		Power	0.878		Power-50%	0.653	P-value	0.1885	
Stouffer's	Power		0.004		Power-50%	0.409	P-value	0.2070		Power	0.212		Power-50%	0.420	P-value	0.1712	
13.1C/13.1	3	6	35.000	15.000	6	26.667	18.915	+	0.7049	6	14.103	8.490	6	5.430	4.408	-	0.7532
94935C/31288	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			17.500	7.500		13.334	9.458	-			7.052	4.245		2.725	2.204	-	
Fisher's	Power		0.004		Power-50%	0.027	P-value	0.4822		Power	0.002		Power-50%	0.006	P-value	0.5027	
Stouffer's	Power		0.042		Power-50%	0.144	P-value	0.4904		Power	0.033		Power-50%	0.060	P-value	0.4920	

y DISTRIBUTION OF DIFFERENCE BETWEEN PAIRS OF MEANS IS DIFFERENCE UNDER ASSUMPTION OF OVERALL EQUALITY.
z Only one site pair.

Table D-90. Page 3. December 21, 1994

		Tectura scutum - abundance (#/m^2)								Tectura scutum - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.962	0.962	6	0.000	0.000	+	0.3632
Habitat Means			1.667	1.667		0.000	0.000	+			0.481	0.481		0.000	0.000	+	
Fisher's	Power		---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's	Power		---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	

y DISTRIBUTION OF DIFFERENCE BETWEEN PAIRS OF MEANS IS DIFFERENCE UNDER ASSUMPTION OF OVERALL EQUALITY.
z Only one site pair.

Table D-90. Page 4. December 21, 1994

Table D-90. I vert. ~~rat~~ Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Balanomorphs - abundance (#/m ²)										Balanomorphs - biomass (g/m ²)								
it	Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	5.333	5.333	6	0.000	0.000	+	0.6331		6	0.011	0.011	6	0.000	0.000	+	0.7123
94935C/31288	1	6	981.667	514.810	6	100.000	100.000	+	0.0020		6	234.475	113.304	6	1.267	1.267	+	0.0002
Habitat Means			493.500	260.072		50.000	50.000	+				117.243	56.658		0.634	0.634	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0029			Power	---		Power-50%	---	P-value	0.0004	
Stouffer's		Power	---		Power-50%	---	P-value	0.0009			Power	---		Power-50%	---	P-value	0.0001	
13.1C/13.1	2	6	8.333	6.540	6	63.333	59.367	-	0.5659		6	0.047	0.043	6	12.268	11.709	-	0.2356
94935C/31288	2	6	793.883	444.006	6	361.667	357.672	-	0.0183		6	589.418	341.982	6	6.762	6.740	-	0.0018
Habitat Means			401.108	225.273		212.500	208.520	-				294.733	171.013		9.515	9.225	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0395			Power	---		Power-50%	---	P-value	0.0065	
Stouffer's		Power	---		Power-50%	---	P-value	0.0102			Power	---		Power-50%	---	P-value	0.0012	
13.1C/13.1	3	6	2037.150	1069.337	6	1571.667	551.630	+	0.7347		6	154.857	85.097	6	100.468	40.954	+	0.4628
94935C/31288	3	6	403.333	106.916	5	1773.340	1740.987	-	0.3466		6	72.555	27.938	5	22.105	21.481	-	0.5154
Habitat Means			1220.242	588.127		1672.504	1146.309	-				113.706	56.518		61.287	31.218	-	
Fisher's		Power	0.087		Power-50%	0.000	P-value	0.3520			Power	0.000		Power-50%	0.000	P-value	0.2278	
Stouffer's		Power	0.038		Power-50%	0.000	P-value	0.1794			Power	0.000		Power-50%	0.000	P-value	0.2433	

1. Direction of difference between habitat means is different than direction of overall tests.
2. Only one site pair.

Table D-90, Page 5, December 21, 1994

Chthamalus dalli - abundance (#/m^2)										Chthamalus dalli - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	0	1.0000	6	0.000	0.000	6	0.000	0.000	0	1.0000
94935C/31288	1	6	16.667	16.667	6	0.000	0.000	-	0.3632	6	0.077	0.077	6	0.000	0.000	+	0.3632
Habitat Means			8.334	8.334		0.000	0.000	-			0.039	0.039		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's		Power	---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821	
13.1C/13.1	2	6	0.000	0.000	6	5.000	5.000	-	0.2531	6	0.000	0.000	6	0.475	0.475	-	0.2658
94935C/31288	2	6	3.333	3.333	6	0.000	0.000	+	0.4420	6	0.053	0.053	6	0.000	0.000	-	0.4161
Habitat Means			1.667	1.667		2.500	2.500	-			0.027	0.027		0.238	0.238	-	
Fisher's		Power	---		Power-50%	---	P-value	0.3270		Power	---		Power-50%	---	P-value	0.3422	
Stouffer's		Power	---		Power-50%	---	P-value	0.7562		Power	---		Power-50%	---	P-value	0.7704	
13.1C/13.1	3	6	6.667	4.944	6	108.333	72.223	-	0.0680	6	0.140	0.105	6	2.020	1.053	-	0.1602
94935C/31288	3	6	1.667	1.667	5	0.000	0.000	+	0.9762	6	0.028	0.028	5	0.000	0.000	-	0.3632
Habitat Means			4.167	3.306		54.167	36.112	-			0.084	0.067		1.010	0.527	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0879		Power	0.003		Power-50%	0.377	P-value	0.2442	
Stouffer's		Power	0.025		Power-50%	0.288	P-value	0.4654		Power	0.029		Power-50%	0.271	P-value	0.7932	

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

Table D-90, Page 6, December 21, 1994

Table D-90. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Balanus glandula - abundance (#/m ²)								Balanus glandula - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	481.667	190.077	6	0.000	0.000	+	0.0058	6	147.307	62.972	6	0.000	0.000	+	0.0050
Habitat Means			240.834	95.039		0.000	0.000	+			73.653	31.486		0.000	0.000	+	
Fisher's	Power	---			Power-50%	---		P-value	0.0109	Power	---		Power-50%	---		P-value	0.0096
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0029	Power	---		Power-50%	---		P-value	0.0025
13.1C/13.1	2	6	0.000	0.000	6	45.000	43.031	-	0.2144	6	0.000	0.000	6	10.313	9.810	-	0.1820
94935C/31288	2	6	765.000	438.701	6	0.000	0.000	+	0.0114	6	584.663	339.597	6	0.000	0.000	+	0.0066
Habitat Means			382.500	219.351		22.500	21.516	+			292.332	169.799		5.157	4.905	+	
Fisher's	Power	---			Power-50%	---		P-value	0.0320	Power	---		Power-50%	---		P-value	0.0204
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0072	Power	---		Power-50%	---		P-value	0.0043
13.1C/13.1	3	6	38.817	21.279	6	396.667	146.735	-	0.2234	6	10.517	6.746	6	41.593	17.708	-	0.4525
94935C/31288	3	6	205.000	85.352	5	0.000	0.000	+	0.0070	6	49.827	21.885	5	0.000	0.000	+	0.0047
Habitat Means			121.909	53.316		198.334	73.368	+			30.172	14.316		20.797	8.854	+	
Fisher's	Power	---			Power-50%	---		P-value	0.0211	Power	---		Power-50%	---		P-value	0.0133
Stouffer's	Power	---			Power-50%	0.182		P-value	0.0045	Power	---		Power-50%	---		P-value	0.0028

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

Table D-90. Page 7. December 21, 1994

Site Pair	MVD	Semibalanus balanoides - abundance (#/m ²)								Semibalanus balanoides - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	5.333	5.333	6	0.000	0.000	+	0.3632	6	0.011	0.011	6	0.000	0.000	+	0.3632
94935C/31288	1	6	410.000	374.469	6	93.333	93.333	+	0.3339	6	63.622	58.936	6	1.267	1.267	+	0.2142
Habitat Means			207.667	189.901		46.667	46.667	+			31.817	29.474		0.634	0.634	+	
Fisher's	Power	0.061			Power-50%	0.096		P-value	0.1363	Power	---		Power-50%	---		P-value	0.0961
Stouffer's	Power	0.250			Power-50%	0.070		P-value	0.1533	Power	---		Power-50%	---		P-value	0.0972
13.1C/13.1	2	6	6.667	6.667	6	3.333	3.333	+	0.9224	6	0.043	0.043	6	0.600	0.600	-	0.8287
94935C/31288	2	6	5.000	3.416	6	350.000	348.004	-	0.5054	6	0.533	0.481	6	6.730	6.720	-	0.9374
Habitat Means			5.834	5.042		176.667	175.669	-			0.288	0.262		3.665	3.660	-	
Fisher's	Power	0.027			Power-50%	0.662		P-value	0.4076	Power	0.041		Power-50%	0.147		P-value	0.5125
Stouffer's	Power	0.011			Power-50%	0.494		P-value	0.2552	Power	0.046		Power-50%	0.111		P-value	0.4634
13.1C/13.1	3	6	1825.000	1001.761	6	933.333	327.858	+	0.3790	6	136.328	75.561	6	54.103	29.716	-	0.1885
94935C/31288	3	6	153.333	71.259	5	1087.340	1057.595	-	0.3796	6	13.170	8.748	5	19.471	18.848	-	0.9217
Habitat Means			989.167	536.510		1010.337	692.727	+			74.749	42.155		36.787	24.282	+	
Fisher's	Power	0.000			Power-50%	0.068		P-value	0.4412	Power	0.001		Power-50%	0.029		P-value	0.2022
Stouffer's	Power	0.001			Power-50%	0.006		P-value	0.7940	Power	0.001		Power-50%	0.001		P-value	0.5055

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

Table D-90. Page 8. December 21, 1994

Table D-90. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Lacuna spp. - abundance (#/m ²)								Lacuna spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	

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

Table D-90. Page 9. December 21, 1994

Site Pair	MVD	Littorina spp. - abundance (#/m ²)								Littorina spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	16.667	7.601	-	0.0292	6	0.000	0.000	6	7.695	4.381	-	0.0437
94935C/31288	1	6	666.667	208.561	6	15.000	13.102	+	0.0003	6	58.315	22.731	6	1.528	1.502	+	0.0013
Habitat Means			333.334	104.281		15.834	10.352	+			29.158	11.366		4.612	2.942	+	
Fisher's	Power		---		Power-50%	---	P-value	0.0015x		Power	---		Power-50%	---	P-value	0.0053x	
Stouffer's	Power		---		Power-50%	---	P-value	0.0003		Power	---		Power-50%	---	P-value	0.0010	
13.1C/13.1	2	6	10.000	3.651	6	193.333	159.367	-	0.5067	6	1.572	0.780	6	111.738	89.640	-	0.4144
94935C/31288	2	6	1391.667	614.998	6	56.667	56.667	+	0.0051	6	88.103	41.753	6	0.513	0.513	+	0.0111
Habitat Means			700.834	309.325		125.000	108.017	+			44.838	21.267		56.126	45.077	+	
Fisher's	Power		---		Power-50%	---	P-value	0.0138		Power	---		Power-50%	---	P-value	0.0283 y	
Stouffer's	Power		---		Power-50%	---	P-value	0.0030		Power	---		Power-50%	---	P-value	0.0065	
13.1C/13.1	3	6	260.000	117.757	6	571.667	246.623	-	0.2266	6	58.320	29.448	6	352.717	193.174	-	0.1505
94935C/31288	3	6	316.667	95.905	5	229.340	226.848	+	0.7422	6	9.828	3.906	5	12.454	12.186	+	0.0328
Habitat Means			288.334	106.831		400.504	236.736	-			34.074	16.677		182.586	102.680	-	
Fisher's	Power		0.005		Power-50%	0.000	P-value	0.2595		Power	---		Power-50%	---	P-value	0.0095	
Stouffer's	Power		0.000		Power-50%	0.013	P-value	0.5989		Power	---		Power-50%	---	P-value	0.0131	

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

Table D-90. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Littorina sitkana - abundance (#/m ²)								Littorina sitkana - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	16.667	7.601	-	0.0292	6	0.000	0.000	6	7.695	4.381	-	0.0437
94935C/31288	1	6	656.667	208.801	6	15.000	13.102	+	0.0003	6	58.010	22.675	6	1.528	1.502	+	0.0013
Habitat Means			328.334	104.401		15.834	10.352	+			29.005	11.338		4.612	2.942	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0015x		Power	---		Power-50%	---	P-value	0.0053x	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0003		Power	---		Power-50%	---	P-value	0.0010	
13.1C/13.1	2	6	10.000	3.651	6	193.333	159.367	-	0.4999	6	1.572	0.780	6	111.738	89.640	-	0.4150
94935C/31288	2	6	910.000	436.425	6	56.667	56.667	+	0.0096	6	83.903	40.994	6	0.513	0.513	+	0.0127
Habitat Means			460.000	220.038		125.000	108.017	+			42.738	20.887		56.126	45.077	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0239		Power	---		Power-50%	---	P-value	0.0317 y	
Stouffer's		Power	---		Power-50%	0.064	P-value	0.0055		Power	---		Power-50%	---	P-value	0.0074	
13.1C/13.1	3	6	260.000	117.757	6	571.667	246.623	-	0.2129	6	58.320	29.448	6	352.717	193.174	-	0.1910
94935C/31288	3	6	110.000	45.534	5	229.340	226.848	-	0.6433	6	6.545	2.754	5	12.454	12.186	-	0.1353
Habitat Means			185.000	81.646		400.504	236.736	-			32.433	16.101		182.586	102.680	-	
Fisher's		Power	0.009		Power-50%	0.017	P-value	0.1498		Power	---		Power-50%	---	P-value	0.0390	
Stouffer's		Power	0.000		Power-50%	0.009	P-value	0.2942		Power	---		Power-50%	---	P-value	0.0577	

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

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

z Only one site pair.

Table D-90, Page 11. December 21, 1994

Site Pair	MVD	Littorina scutulata - abundance (#/m ²)								Littorina scutulata - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	10.000	3.651	6	0.000	0.000	-	0.0269	6	0.305	0.122	6	0.000	0.000	-	0.0262
Habitat Means			5.000	1.826		0.000	0.000	-			0.153	0.061		0.000	0.000	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0404		Power	---		Power-50%	---	P-value	0.0395	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0136		Power	---		Power-50%	---	P-value	0.0132	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	481.667	311.934	6	0.000	0.000	+	0.0086	6	4.200	2.309	6	0.000	0.000	+	0.0060
Habitat Means			240.834	155.967		0.000	0.000	+			2.100	1.155		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0154		Power	---		Power-50%	---	P-value	0.0113	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0044		Power	---		Power-50%	---	P-value	0.0030	
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	3	6	206.667	55.478	5	0.000	0.000	+	0.0003	6	3.283	1.363	5	0.000	0.000	+	0.0001
Habitat Means			103.334	27.739		0.000	0.000	+			1.642	0.682		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0008		Power	---		Power-50%	---	P-value	0.0003	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0002		Power	---		Power-50%	---	P-value	0.0001	

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

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

z Only one site pair.

Table D-90, Page 12. December 21, 1994

Table D-90. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Mytilus edulis - abundance (#/m ²)										Mytilus edulis - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	3.333	3.333	6	0.000	0.000	+	0.5717	6	0.001	0.001	6	0.000	0.000	+	0.3632		
94935C/31288	1	6	5.000	3.416	6	6.667	6.667	-	0.7767	6	0.052	0.035	6	0.447	0.447	-	0.8385		
Habitat Means			4.167	3.375		3.334	3.334	+			0.027	0.018		0.224	0.224	+			
Fisher's		Power	0.558		Power-50%	0.656	P-value	0.4797		Power	0.624		Power-50%	0.705	P-value	0.3427	y		
Stouffer's		Power	0.913		Power-50%	0.502	P-value	0.5974		Power	0.922		Power-50%	0.549	P-value	0.5576			
13.1C/13.1	2	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.020	0.020	6	0.337	0.337	-	0.8304		
94935C/31288	2	6	835.000	588.930	6	35.550	26.368	+	0.0046	6	101.318	61.629	6	13.032	13.032	+	0.0068		
Habitat Means			418.334	295.299		18.609	14.018	+			50.669	30.825		6.685	6.685	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0089		Power	---		Power-50%	---	P-value	0.0144			
Stouffer's		Power	---		Power-50%	0.147	P-value	0.0023		Power	---		Power-50%	---	P-value	0.0036			
13.1C/13.1	3	6	5.000	2.236	6	198.333	124.858	-	1.0000	6	0.488	0.412	6	195.545	126.900	-	0.2515		
94935C/31288	3	6	1538.333	1149.099	5	25.320	11.992	-	0.1016	6	4285.952	3092.316	5	0.749	0.640	-	0.0261		
Habitat Means			771.667	575.668		111.827	68.425	+			2143.220	1546.364		98.147	63.770	-			
Fisher's		Power	0.000		Power-50%	0.013	P-value	0.1187		Power	---		Power-50%	---	P-value	0.0624			
Stouffer's		Power	---		Power-50%	0.062	P-value	0.0511		Power	---		Power-50%	---	P-value	0.0159			

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

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Turtonia minuta - abundance (#/m ²)										Turtonia minuta - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	2	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.003	0.003	-	0.3632		
Habitat Means			0.000	0.000		0.834	0.834	-			0.000	0.000		0.002	0.002	-			
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086			
Stouffer's		Power	---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821			
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	3	6	1.667	1.667	5	0.000	0.000	+	0.3632	6	0.001	0.001	5	0.000	0.000	+	0.3632		
Habitat Means			0.834	0.834		0.000	0.000	+			0.001	0.001		0.000	0.000	+			
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086			
Stouffer's		Power	---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821			

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D 90. Page 14. December 21, 1994

Table D-90. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Pagurus spp. - abundance (#/m ²)										Pagurus spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.240	0.240	6	0.000	0.000	+	0.3632		
Habitat Means			1.667	1.667		0.000	0.000	-			0.120	0.120		0.000	0.000	-			
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086			
Stouffer's		Power	---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821			
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	2	6	5.000	5.000	6	0.000	0.000	+	0.3632	6	0.357	0.357	6	0.000	0.000	+	0.3632		
Habitat Means			2.500	2.500		0.000	0.000	+			0.179	0.179		0.000	0.000	-			
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086			
Stouffer's		Power	---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821			
13.1C/13.1	3	6	0.000	0.000	6	10.000	10.000	-	0.3632	6	0.000	0.000	6	2.568	2.568	-	1.0000		
94935C/31288	3	6	13.333	7.149	5	0.000	0.000	+	0.0823	6	1.183	0.733	5	0.000	0.000	-	0.5672		
Habitat Means			6.667	3.575		5.000	5.000	+			0.592	0.367		1.284	1.284	+			
Fisher's		Power	0.034		Power-50%	0.040	P-value	0.1479		Power	0.029		Power-50%	0.035	P-value	0.4188			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0468		Power	0.000		Power-50%	0.000	P-value	0.2841			
x At least one site pair p-value < 0.100 in opposite direction of overall tests. y Direction of difference between habitat means is different than direction of overall tests. z Only one site pair.																			
Nucella spp. - abundance (#/m ²)										Nucella spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	3	6	23.333	19.607	5	0.000	0.000	+	0.1877	6	32.332	32.316	5	0.000	0.000	-	0.2288		
Habitat Means			11.667	9.804		0.000	0.000	+			16.166	16.158		0.000	0.000	-			
Fisher's		Power	0.081		Power-50%	0.025	P-value	0.1905		Power	0.000		Power-50%	0.001	P-value	0.2209			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0943		Power	0.000		Power-50%	0.000	P-value	0.1149			

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Table D-90. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Nucella lima - abundance (#/m ²)										Nucella lima - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	3	6	18.333	18.333	5	0.000	0.000	+	0.3632	6	32.312	32.312	5	0.000	0.000	-	0.3632		
Habitat Means			9.166	9.166		0.000	0.000	+			16.156	16.156		0.000	0.000	-			
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086			
Stouffer's		Power	---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821			

Nucella lamellosa - abundance (#/m ²)										Nucella lamellosa - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			

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

Table D 90. Page 17. December 21, 1994

Table D-90. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Site Pair	MVD	Amphipoda - abundance (#/m ²)								Amphipoda - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	410.000	222.081	6	991.667	969.799	-	0.2095	6	1.982	1.422	6	1.222	1.021	+	0.5459
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			205.000	111.041		495.834	484.900	-			0.991	0.711		0.611	0.511	+	
Fisher's		Power	0.003		Power-50%	0.000	P-value	0.2068		Power	0.000		Power-50%	0.000	P-value	0.4083	
Stouffer's		Power	0.043		Power-50%	0.000	P-value	0.4681		Power	0.000		Power-50%	0.000	P-value	0.4846	
13.1C/13.1	2	6	8.333	4.014	6	2381.667	1093.775	-	0.0118	6	0.013	0.009	6	5.270	2.050	-	0.0080
94935C/31288	2	6	18.333	11.377	6	0.000	0.000	+	0.0865	6	0.037	0.027	6	0.000	0.000	+	0.1558
Habitat Means			13.333	7.696		1190.834	546.888	-			0.025	0.018		2.635	1.025	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0349x		Power	---		Power-50%	---	P-value	0.0244	
Stouffer's		Power	0.011		Power-50%	0.266	P-value	0.9395		Power	0.003		Power-50%	0.034	P-value	0.8939	
13.1C/13.1	3	6	1.667	1.667	6	760.000	541.091	-	0.0275	6	0.000	0.000	6	18.767	18.141	-	0.0368
94935C/31288	3	6	46.667	26.541	5	0.000	0.000	+	0.0843	6	0.125	0.082	5	0.000	0.000	-	0.0915
Habitat Means			24.167	14.104		380.000	270.546	-			0.063	0.041		9.384	9.070	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0702x		Power	---		Power-50%	---	P-value	0.0885x	
Stouffer's		Power	0.056		Power-50%	0.201	P-value	0.9432		Power	0.038		Power-50%	0.094	P-value	0.9326	

1 Direction of difference between habitat means is different than direction of overall tests.
2 Only one site pair.

Table D-90, Page 19, December 21, 1994

Site Pair	MVD	Isopoda - abundance (#/m ²)								Isopoda - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	3	6	5.000	5.000	5	2.000	2.000	-	0.4627	6	0.005	0.005	5	0.006	0.006	-	0.8663
Habitat Means			2.500	2.500		1.000	1.000	+			0.003	0.003		0.003	0.003	-	
Fisher's		Power	---		Power-50%	---	P-value	0.3652		Power	---		Power-50%	---	P-value	0.5479	
Stouffer's		Power	---		Power-50%	---	P-value	0.2319		Power	---		Power-50%	---	P-value	0.4334	

1 Direction of difference between habitat means is different than direction of overall tests.
2 Only one site pair.

Table D-90, Page 20, December 21, 1994

Table D-90. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. July 1990. (Continued.)

Errant polychaetes - abundance (#/m^2)										Errant polychaetes - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	2	6	68.333	34.585	6	186.667	96.252	-	0.7751	6	0.077	0.030	6	0.200	0.150	-	0.3689		
Habitat Means			34.167	17.293		93.334	48.126	-			0.039	0.015		0.100	0.075	-			
Fisher's		Power	0.095		Power-50%	0.001	P-value	0.5118		Power	0.003		Power-50%	0.001	P-value	0.3120			
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.3879		Power	0.000		Power-50%	0.000	P-value	0.1850			
13.1C/13.1	3	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.018	0.018	6	0.000	0.000	+	0.3632		
94935C/31288	3	6	408.333	215.119	5	62.000	38.000	+	0.0348	6	3.570	2.655	5	0.087	0.056	+	0.0780		
Habitat Means			205.000	108.393		31.000	19.000	+			1.794	1.337		0.044	0.028	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0214		Power	---		Power-50%	---	P-value	0.0421			
Stouffer's		Power	---		Power-50%	0.102	P-value	0.0152		Power	---		Power-50%	---	P-value	0.0346			

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

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

z Only one site pair.

Table D-96, Page 21, December 21, 1994

Sedentary polychaetes - abundance (#/m^2)										Sedentary polychaetes - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
13.1C/13.1	2	6	3.333	3.333	6	6.667	6.667	-	0.9521	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	2	6	93.333	62.592	6	45.000	45.000	+	0.3880	6	0.105	0.083	6	0.050	0.050	-	0.4332		
Habitat Means			48.333	32.963		25.834	25.834	+			0.053	0.042		0.025	0.025	-			
Fisher's		Power	0.001		Power-50%	0.262	P-value	0.3340		Power	0.003		Power-50%	0.183	P-value	0.3490			
Stouffer's		Power	0.006		Power-50%	0.189	P-value	0.1956		Power	0.020		Power-50%	0.134	P-value	0.2171			
13.1C/13.1	3	6	0.000	0.000	6	8.333	8.333	-	0.3919	6	0.000	0.000	6	0.001	0.001	-	0.3632		
94935C/31288	3	6	106.667	78.853	5	7.120	7.120	+	0.0011	6	0.207	0.183	5	0.011	0.011	+	0.1859		
Habitat Means			53.334	39.427		7.727	7.727	+			0.104	0.092		0.006	0.006	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0039		Power	0.000		Power-50%	0.000	P-value	0.2720			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0007		Power	0.000		Power-50%	0.000	P-value	0.1034			

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

Table D-90. Page 21. December 21, 1994

Table D-90. Invertebrate Abundance and Biomass, Kodiak/Alaska Peninsula, Coarse Textured, July 1990. (Continued.)

Site Pair	MVD	Oligochaeta - abundance (#/m ²)							Oligochaeta - biomass (g/m ²)						
		N	C	SE	N	O	SE	D	N	C	SE	N	O	SE	D
13.1C/13.1	1	6	1691.000	828.272	6	761.667	496.578	+	6	3.095	1.602	6	0.710	0.534	+
94935C/31288	1	6	110.000	86.641	6	9167.967	5062.000	-	6	0.058	0.046	6	7.087	4.879	-
Habitat Means			900.500	457.457		4964.817	2779.289	-		1.577	0.824		3.899	2.707	-
Fisher's		Power	---		Power-50%	---	P-value	0.0043	Power	---		Power-50%	---	P-value	0.0150
Stouffer's		Power	---		Power-50%	0.004	P-value	0.0008	Power	---		Power-50%	---	P-value	0.0033
13.1C/13.1	2	6	21.667	12.494	6	5136.667	4280.428	-	6	0.002	0.002	6	2.912	2.574	-
94935C/31288	2	6	569.450	190.750	6	1238.750	424.386	-	6	0.092	0.045	6	0.708	0.410	-
Habitat Means			295.559	101.622		3187.709	2352.407	-		0.047	0.024		1.810	1.492	-
Fisher's		Power	---		Power-50%	---	P-value	0.0060	Power	---		Power-50%	---	P-value	0.0003
Stouffer's		Power	0.012		Power-50%	0.066	P-value	0.2022	Power	---		Power-50%	---	P-value	0.0195
13.1C/13.1	3	6	42.150	30.382	6	656.667	585.375	-	6	0.012	0.011	6	0.515	0.485	-
94935C/31288	3	6	1836.667	1191.539	5	102.220	59.880	+	6	3.598	2.690	5	0.028	0.028	-
Habitat Means			939.409	610.961		379.444	322.628	+		1.805	1.351		0.272	0.257	-
Fisher's		Power	0.036		Power-50%	0.041	P-value	0.1611	Power	---		Power-50%	---	P-value	0.0189x
Stouffer's		Power	---		Power-50%	0.152	P-value	0.0559	Power	---		Power-50%	---	P-value	0.0041

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

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Site Pair	MVD	Total Invertebrates - abundance (#/m ²)							Total Invertebrates - biomass (g/m ²)						
		N	C	SE	N	O	SE	D	N	C	SE	N	O	SE	D
13.1C/13.1	1	6	2163.000	1043.946	6	1795.000	1215.277	+	6	5.110	2.931	6	9.632	4.226	-
94935C/31288	1	6	1943.333	647.017	6	10541.850	5012.695	-	6	300.632	135.845	6	10.484	5.026	+
Habitat Means			2053.167	845.482		6168.425	3113.986	-		152.871	69.388		10.058	4.626	+
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.3741	Power	0.000		Power-50%	0.000	P-value	0.1427
Stouffer's		Power	0.004		Power-50%	0.000	P-value	0.1638	Power	---		Power-50%	---	P-value	0.0476
13.1C/13.1	2	6	100.000	49.329	6	7995.000	4783.187	-	6	4.433	2.334	6	133.216	100.147	-
94935C/31288	2	6	4528.883	1549.958	6	3127.050	1128.773	+	6	786.564	420.632	6	21.853	21.334	+
Habitat Means			2314.442	799.644		5561.025	2955.980	-		395.499	211.483		77.534	60.741	-
Fisher's		Power	---		Power-50%	---	P-value	0.0728	Power	---		Power-50%	---	P-value	0.0415xy
Stouffer's		Power	0.000		Power-50%	0.015	P-value	0.5981	Power	0.000		Power-50%	0.001	P-value	0.9891
13.1C/13.1	3	6	2411.683	1138.318	6	3830.000	949.477	-	6	229.484	105.936	6	678.334	244.467	-
94935C/31288	3	6	6146.667	3555.653	5	2842.680	2240.528	+	6	4436.556	3165.347	5	36.118	34.105	-
Habitat Means			4279.175	2346.986		3336.340	1595.003	+		2333.020	1635.642		357.226	139.286	-
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.3491	Power	---		Power-50%	---	P-value	0.0164
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1683	Power	---		Power-50%	---	P-value	0.0034

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

Table D-91. Invertebrate Abundance and Biomass. 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; 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	Lottidae - abundance (#/m ²)								Lottidae - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	5	24.000	6.000	6	0.000	0.000	+	0.0004	5	8.314	3.568	6	0.000	0.000	+	0.0001
Habitat Means			12.000	3.000		0.000	0.000	+			4.157	1.784		0.000	0.000	+	
Fisher's	Power		---		Power-50%	---	P-value	0.0010		Power	---		Power-50%	---	P-value	0.0003	
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0002		Power	---		Power-50%	---	P-value	0.0001	
13.1C/13.1	2	6	1.667	1.667	6	8.333	8.333	-	0.3897	6	0.735	0.735	6	1.417	1.417	-	0.6027
94935C/31288	2	6	10.000	6.325	6	1.667	1.667	-	0.2848	6	1.495	0.831	6	0.292	0.292	-	0.3616
Habitat Means			5.834	3.996		5.000	5.000	+			1.115	0.783		0.855	0.855	+	
Fisher's	Power		0.002		Power-50%	0.397	P-value	0.3630		Power	0.003		Power-50%	0.357	P-value	0.3877	
Stouffer's	Power		0.000		Power-50%	0.295	P-value	0.1556		Power	0.005		Power-50%	0.253	P-value	0.1902	
13.1C/13.1	3	6	11.667	5.426	6	63.333	17.448	-	0.4827	6	1.722	0.840	6	10.192	2.518	-	0.1471
94935C/31288	3	6	111.667	100.147	6	8.333	8.333	+	0.1679	6	19.795	17.782	6	0.525	0.525	+	0.4030
Habitat Means			61.667	52.787		35.833	12.891	+			10.759	9.311		5.359	1.522	-	
Fisher's	Power		0.234		Power-50%	0.241	P-value	0.2391		Power	0.002		Power-50%	0.211	P-value	0.2252	y
Stouffer's	Power		---		Power-50%	0.147	P-value	0.0915		Power	0.003		Power-50%	0.134	P-value	0.1709	

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

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Site Pair	MVD	Lottia pelta - abundance (#/m ²)								Lottia Pelta - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	5	8.000	4.899	6	0.000	0.000	+	0.1778	5	6.146	3.942	6	0.000	0.000	-	0.1780
Habitat Means			4.000	2.450		0.000	0.000	+			3.073	1.971		0.000	0.000	-	
Fisher's	Power		0.261		Power-50%	0.292	P-value	0.1828		Power	0.279		Power-50%	0.192	P-value	0.1830	
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0893		Power	---		Power-50%	---	P-value	0.0894	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	3.333	2.108	6	0.000	0.000	+	0.1747	6	0.675	0.560	6	0.000	0.000	+	0.1783
Habitat Means			1.667	1.054		0.000	0.000	+			0.338	0.280		0.000	0.000	-	
Fisher's	Power		0.602		Power-50%	0.350	P-value	0.1804		Power	0.089		Power-50%	0.031	P-value	0.1832	
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0878		Power	---		Power-50%	---	P-value	0.0896	
13.1C/13.1	3	6	5.000	2.236	6	5.000	5.000	o	0.5458	6	0.858	0.463	6	1.323	1.323	-	0.3683
94935C/31288	3	6	76.667	72.740	6	6.667	6.667	-	0.3862	6	16.630	16.235	6	0.412	0.412	-	0.4310
Habitat Means			40.834	37.488		5.834	5.834	-			8.744	8.349		0.868	0.868	-	
Fisher's	Power		0.004		Power-50%	0.156	P-value	0.4160		Power	0.057		Power-50%	0.110	P-value	0.4240	y
Stouffer's	Power		0.001		Power-50%	0.094	P-value	0.2044		Power	0.163		Power-50%	0.058	P-value	0.7668	

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

Table D-91. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Table D-91. Page 3. December 21, 1994

Table D-91. Page 4. December 21, 1994

Table D-91. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Balanomorphs - abundance (#/m ²)										Balanomorphs - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	1.667	1.667	-	0.3779	6	0.000	0.000	6	0.132	0.132	-	0.2126		
94935C/31288	1	5	1962.000	592.701	6	0.000	0.000	+	0.0001	5	522.928	155.351	6	0.000	0.000	+	0.0001		
Habitat Means			981.000	296.351		0.834	0.834	+			261.464	77.676		0.066	0.066	+			
Fisher's	Power	---			Power-50%	---	P-value	0.0005		Power	---			Power-50%	---	P-value	0.0005		
Stouffer's	Power	---			Power-50%	0.000	P-value	0.0001		Power	---			Power-50%	---	P-value	0.0001		
13.1C/13.1	2	6	256.667	254.672	6	35.000	35.000	+	0.6060	6	4.483	4.473	6	1.542	1.542	-	0.7489		
94935C/31288	2	6	1007.150	501.721	6	200.000	200.000	+	0.0708	6	693.576	406.869	6	6.353	6.353	-	0.0034		
Habitat Means			631.909	378.197		117.500	117.500	+			349.030	205.671		3.948	3.948	-			
Fisher's	Power	---			Power-50%	---	P-value	0.0594		Power	---			Power-50%	---	P-value	0.0053		
Stouffer's	Power	---			Power-50%	0.041	P-value	0.0331		Power	---			Power-50%	---	P-value	0.0016		
13.1C/13.1	3	6	3413.333	2129.203	6	1281.667	380.766	+	0.3535	6	331.217	233.541	6	45.230	21.851	+	0.4142		
94935C/31288	3	6	1511.667	880.339	6	2156.667	2148.677	-	0.7767	6	648.502	410.539	6	108.235	108.197	+	0.1309		
Habitat Means			2462.500	1504.771		1719.167	1264.722	+			489.860	322.040		76.733	65.024	+			
Fisher's	Power	0.000			Power-50%	0.001	P-value	0.3486		Power	---			Power-50%	---	P-value	0.0719		
Stouffer's	Power	0.007			Power-50%	0.023	P-value	0.5884		Power	---			Power-50%	---	P-value	0.0594		

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

2. Only one site pair.

Chthamalus dalli - abundance (#/m ²)										Chthamalus dalli - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	5	2.000	2.000	6	0.000	0.000	+	0.3739	5	0.034	0.034	6	0.000	0.000	+	0.3739		
Habitat Means			1.000	1.000		0.000	0.000	-			0.017	0.017		0.000	0.000	-			
Fisher's	Power	---			Power-50%	---	P-value	0.3150		Power	---			Power-50%	---	P-value	0.3150		
Stouffer's	Power	---			Power-50%	---	P-value	0.1875		Power	---			Power-50%	---	P-value	0.1875		
13.1C/13.1	2	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.008	0.008	6	0.000	0.000	+	0.3632		
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.834	0.834		0.000	0.000	+			0.004	0.004		0.000	0.000	+			
Fisher's	Power	---			Power-50%	---	P-value	0.3086		Power	---			Power-50%	---	P-value	0.3086		
Stouffer's	Power	---			Power-50%	---	P-value	0.4768		Power	---			Power-50%	---	P-value	0.4768		
13.1C/13.1	3	6	73.333	65.659	6	5.000	2.236	+	0.7325	6	1.930	1.875	6	0.098	0.072	+	0.9770		
94935C/31288	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			36.667	32.830		2.500	1.118	+			0.965	0.938		0.049	0.036	+			
Fisher's	Power	0.140			Power-50%	0.020	P-value	0.4940		Power	0.027			Power-50%	0.008	P-value	0.5885		
Stouffer's	Power	0.406			Power-50%	0.096	P-value	0.4913		Power	0.151			Power-50%	0.036	P-value	0.4993		

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

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Table D-91. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	1.667	1.667	-	0.9961	6	0.000	0.000	6	0.132	0.132	-	0.2127		
94935C/31288	1	5	1710.000	563.906	6	0.000	0.000	+	0.0001	5	502.920	153.290	6	0.000	0.000	+	0.0001		
Habitat Means			855.000	281.953		0.834	0.834	+			251.460	76.645		0.066	0.066	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0003	Power	---		Power-50%	---		P-value	0.0005		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0001	Power	---		Power-50%	---		P-value	0.0001		
13.1C/13.1	2	6	8.333	8.333	6	3.333	3.333	+	0.8916	6	0.418	0.418	6	1.110	1.110	-	0.9432		
94935C/31288	2	6	923.817	502.640	6	1.667	1.667	+	0.0003	6	651.236	414.235	6	0.052	0.052	+	0.0012		
Habitat Means			466.075	255.487		2.500	2.500	+			325.827	207.327		0.581	0.581	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0007	Power	---		Power-50%	---		P-value	0.0029		
Stouffer's	Power		---		Power-50%	0.091		P-value	0.0001	Power	---		Power-50%	---		P-value	0.0006		
13.1C/13.1	3	6	386.667	253.609	6	238.333	138.406	+	0.6593	6	63.527	50.751	6	15.955	10.517	+	0.8702		
94935C/31288	3	6	1438.333	893.840	6	0.000	0.000	+	0.0005	6	561.953	418.065	6	0.000	0.000	+	0.0001		
Habitat Means			912.500	573.725		119.167	69.203	+			312.740	234.408		7.978	5.259	+			
Fisher's	Power		---		Power-50%	---		P-value	0.0009	Power	---		Power-50%	---		P-value	0.0003		
Stouffer's	Power		---		Power-50%	0.026		P-value	0.0002	Power	---		Power-50%	---		P-value	0.0000		

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

z Only one site pair.

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	5	116.000	68.162	6	0.000	0.000	+	0.0291	5	14.874	9.236	6	0.000	0.000	-	0.0220		
Habitat Means			58.000	34.081		0.000	0.000	+			7.437	4.618		0.000	0.000	-			
Fisher's	Power		---		Power-50%	---		P-value	0.0431	Power	---		Power-50%	---		P-value	0.0341		
Stouffer's	Power		---		Power-50%	0.000		P-value	0.0147	Power	---		Power-50%	---		P-value	0.0111		
13.1C/13.1	2	6	241.667	241.667	6	31.667	31.667	-	0.3243	6	4.048	4.048	6	0.432	0.432	-	0.8837		
94935C/31288	2	6	66.667	58.860	6	153.333	153.333	-	0.6811	6	39.495	36.545	6	5.787	5.787	-	0.2393		
Habitat Means			154.167	150.264		92.500	92.500	+			21.772	20.297		3.110	3.110	+			
Fisher's	Power		0.024		Power-50%	0.116		P-value	0.3460	Power	0.021		Power-50%	0.059		P-value	0.2083		
Stouffer's	Power		0.133		Power-50%	0.074		P-value	0.6356	Power	0.067		Power-50%	0.042		P-value	0.1183		
13.1C/13.1	3	6	2548.333	1605.064	6	935.000	299.163	-	0.3300	6	258.973	177.979	6	28.487	11.850	+	0.4376		
94935C/31288	3	6	3.333	3.333	6	1871.667	1871.667	-	0.5895	6	2.398	2.398	6	99.195	99.195	-	0.8388		
Habitat Means			1275.833	804.199		1403.334	1085.415	-			130.686	90.189		63.841	55.523	+			
Fisher's	Power		0.001		Power-50%	0.056		P-value	0.3667 y	Power	0.004		Power-50%	0.079		P-value	0.3891		
Stouffer's	Power		0.042		Power-50%	0.033		P-value	0.6829	Power	0.068		Power-50%	0.027		P-value	0.5608		

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-91. Page 7. December 21, 1994

Table D-91. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Lacuna spp. - abundance (#/m ²)										Lacuna spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	2	6	3.333	3.333	6	0.000	0.000	-	0.3632	6	0.001	0.001	6	0.000	0.000	-	0.3632		
Habitat Means			1.667	1.667		0.000	0.000	-			0.001	0.001		0.000	0.000	-			
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086			
Stouffer's		Power	---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821			
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	3	6	1.667	1.667	6	0.000	0.000	-	0.3632	6	0.003	0.003	6	0.000	0.000	-	0.3632		
Habitat Means			0.834	0.834		0.000	0.000	-			0.002	0.002		0.000	0.000	-			
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086			
Stouffer's		Power	---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821			

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

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Littorina spp. - abundance (#/m ²)										Littorina spp. - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	8.333	5.540	-	0.1868	6	0.000	0.000	6	4.990	3.411	-	0.1750		
94935C/31288	1	5	3088.000	842.178	6	1.667	1.667	+	0.0001	5	271.192	91.394	6	0.005	0.005	+	0.0001		
Habitat Means			1544.000	421.089		5.000	4.104	+			135.596	45.697		2.498	1.708	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0005		Power	---		Power-50%	---	P-value	0.0005			
Stouffer's		Power	---		Power-50%	---	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0001			
13.1C/13.1	2	6	25.000	25.000	6	31.667	10.462	-	0.1245	6	0.418	0.418	6	26.920	10.074	-	0.0051		
94935C/31288	2	6	1501.917	423.815	6	14.850	10.204	+	0.0010	6	57.510	26.055	6	0.383	0.245	+	0.0082		
Habitat Means			763.459	224.408		23.259	10.333	+			28.964	13.237		13.652	5.160	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0041		Power	---		Power-50%	---	P-value	0.0177			
Stouffer's		Power	---		Power-50%	---	P-value	0.0007		Power	0.009		Power-50%	0.216	P-value	0.9930			
13.1C/13.1	3	6	611.667	501.985	6	326.667	124.061	+	0.5147	6	12.448	9.537	6	100.693	52.464	-	0.0178		
94935C/31288	3	6	711.667	217.691	6	244.083	233.213	+	0.2894	6	17.887	12.887	6	17.257	16.948	+	0.2709		
Habitat Means			661.667	359.838		285.375	178.637	+			15.168	11.212		58.975	34.706	-			
Fisher's		Power	0.084		Power-50%	0.085	P-value	0.1598		Power	---		Power-50%	---	P-value	0.0451			
Stouffer's		Power	0.118		Power-50%	0.111	P-value	0.1359		Power	0.000		Power-50%	0.095	P-value	0.8283			

Table D-91. Page 9. December 21, 1994

Table D-91. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Littorina sitkana - abundance (#/m^2)										Littorina sitkana - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	8.333	6.540	-	0.1868	6	0.000	0.000	6	4.990	3.411	-	0.1750		
94935C/31288	1	5	2970.000	851.041	6	0.000	0.000	+	0.0001	5	269.418	91.648	6	0.000	0.000	-	0.0001		
Habitat Means			1485.000	425.521		4.167	3.270	+			134.709	45.824		2.495	1.706	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0005		Power	---		Power-50%	---	P-value	0.0005			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0001			
13.1C/13.1	2	6	25.000	25.000	6	31.667	10.462	-	0.1016	6	0.418	0.418	6	26.920	10.074	-	0.0048		
94935C/31288	2	6	501.433	177.406	6	14.850	10.204	+	0.0039	6	48.608	25.822	6	0.383	0.245	-	0.0106		
Habitat Means			263.217	101.203		23.259	10.333	+			24.513	13.120		13.652	5.160	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0135		Power	---		Power-50%	---	P-value	0.0168			
Stouffer's		Power	---		Power-50%	0.343	P-value	0.0028		Power	0.009		Power-50%	0.175	P-value	0.9911			
13.1C/13.1	3	6	606.667	497.049	6	326.667	124.061	+	0.4928	6	12.367	9.457	6	100.693	52.464	-	0.0168		
94935C/31288	3	6	273.333	82.084	6	239.083	228.214	+	0.9327	6	14.593	12.609	6	16.947	16.638	-	0.4304		
Habitat Means			440.000	289.567		282.875	176.138	+			13.480	11.033		58.820	34.551	-			
Fisher's		Power	0.074		Power-50%	0.079	P-value	0.3635		Power	---		Power-50%	---	P-value	0.0132			
Stouffer's		Power	0.123		Power-50%	0.107	P-value	0.4491		Power	0.000		Power-50%	0.071	P-value	0.1738			

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

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

z Only one site pair.

Table D-91. Page 11. December 21, 1994

Littorina scutulata - abundance (#/m^2)										Littorina scutulata - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
94935C/31288	1	5	118.000	19.079	6	1.667	1.667	+	0.0001	5	1.774	0.343	6	0.005	0.005	+	0.0001		
Habitat Means			59.000	9.540		0.834	0.834	+			0.887	0.172		0.003	0.003	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0003		Power		---		Power-50%	---	P-value	0.0003		
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0001		Power		---		Power-50%	---	P-value	0.0001		
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	2	6	1000.483	334.843	6	0.000	0.000	+	0.0045	6	8.902	3.414	6	0.000	0.000	+	0.0044		
Habitat Means			500.242	167.422		0.000	0.000	+			4.451	1.707		0.000	0.000	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0088		Power		---		Power-50%	---	P-value	0.0086		
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0023		Power		---		Power-50%	---	P-value	0.0022		
13.1C/13.1	3	6	5.000	5.000	6	0.000	0.000	+	0.5475	6	0.082	0.082	6	0.000	0.000	+	0.5029		
94935C/31288	3	6	438.333	173.694	6	5.000	5.000	+	0.0001	6	3.293	1.062	6	0.310	0.310	+	0.0020		
Habitat Means			221.667	89.347		2.500	2.500	+			1.688	0.572		0.155	0.155	+			
Fisher's	Power		---		Power-50%	---	P-value	0.0002		Power		---		Power-50%	---	P-value	0.0023		
Stouffer's	Power		---		Power-50%	0.289	P-value	0.0000		Power		---		Power-50%	---	P-value	0.0000		

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

z Only one site pair.

Table D-91. Page 12. December 21, 1994

Table D-91. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula, Coarse Textured, September 1990. (Continued.)

Site Pair	MVD	Mytilus edulis - abundance (#/m ²)								Mytilus edulis - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	5	260.000	103.247	6	0.000	0.000	+	0.0002	5	40.386	35.612	6	0.000	0.000	+	0.0003
Habitat Means			130.000	51.624		0.000	0.000	+			20.193	17.806		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0005		Power	---		Power-50%	---	P-value	0.0008	
Stouffer's		Power	---		Power-50%	---	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0002	
13.1C/13.1	2	6	3.333	3.333	6	0.000	0.000	+	0.4530	6	0.002	0.002	6	0.000	0.000	+	0.7223
94935C/31288	2	6	617.300	372.086	6	12.517	4.700	+	0.0001	6	205.509	193.043	6	0.062	0.056	+	0.0001
Habitat Means			310.317	187.710		6.259	2.350	+			102.756	96.522		0.031	0.028	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0002	
Stouffer's		Power	---		Power-50%	---	P-value	0.0000		Power	---		Power-50%	---	P-value	0.0000	
13.1C/13.1	3	6	100.000	62.769	6	125.000	74.510	-	0.1980	6	55.092	36.531	6	112.998	51.878	-	0.1146
94935C/31288	3	6	2926.667	1999.066	6	172.317	123.884	+	0.0089	6	434.857	297.003	6	80.726	80.333	+	0.0360
Habitat Means			1513.334	1030.918		148.659	99.197	+			244.975	166.767		96.862	66.106	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0261		Power	---		Power-50%	---	P-value	0.0861	
Stouffer's		Power	---		Power-50%	---	P-value	0.0057		Power	---		Power-50%	---	P-value	0.0232	

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

Table D-91, Page 13, December 21, 1994

Site Pair	MVD	Turtonia minuta - abundance (#/m ²)								Turtonia minuta - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	3	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.001	0.001	-	0.3632
94935C/31288	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.834	0.834	-			0.000	0.000		0.001	0.001	-	
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's		Power	---		Power-50%	---	P-value	0.4768		Power	---		Power-50%	---	P-value	0.4768	

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

Table D-91, Page 14, December 21, 1994

Table D-91. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Site Pair	MVD	Pagurus spp. - abundance (#/m ²)								Pagurus spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	0	1.0000	6	0.000	0.000	6	0.000	0.000	0	1.0000
94935C/31288	1	5	62.000	46.519	6	0.000	0.000	+	0.1823	5	4.224	2.690	6	0.000	0.000	-	0.1780
Habitat Means			31.000	23.260		0.000	0.000	+			2.112	1.345		0.000	0.000	-	
Fisher's	Power		0.079		Power-50%	0.082	P-value	0.1863		Power	0.297		Power-50%	0.247	P-value	0.1830	
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0916		Power	---		Power-50%	---	P-value	0.0894	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	0	1.0000	6	0.000	0.000	6	0.000	0.000	0	1.0000
94935C/31288	2	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.172	0.172	6	0.000	0.000	-	0.3632
Habitat Means			1.667	1.667		0.000	0.000	+			0.086	0.086		0.000	0.000	-	
Fisher's	Power		---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's	Power		---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821	
13.1C/13.1	3	6	1.667	1.667	6	8.333	6.540	-	0.5111	6	0.067	0.067	6	0.407	0.264	-	0.4656
94935C/31288	3	6	26.667	17.638	6	3.333	3.333	+	0.3182	6	1.465	0.985	6	0.005	0.005	-	0.2604
Habitat Means			14.167	9.653		5.833	4.937	+			0.766	0.526		0.206	0.135	-	
Fisher's	Power		0.127		Power-50%	0.740	P-value	0.3711		Power	0.552		Power-50%	0.678	P-value	0.3300	
Stouffer's	Power		0.022		Power-50%	0.587	P-value	0.1700		Power	0.004		Power-50%	0.550	P-value	0.1408	

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-91. Page 15. December 21, 1994

Site Pair	MVD	Nucella spp. - abundance (#/m ²)								Nucella spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	0	1.0000	6	0.000	0.000	6	0.000	0.000	0	1.0000
94935C/31288	1	5	0.000	0.000	6	0.000	0.000	0	1.0000	5	0.000	0.000	6	0.000	0.000	0	1.0000
Habitat Means			0.000	0.000		0.000	0.000	0			0.000	0.000		0.000	0.000	0	
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	0	1.0000	6	0.000	0.000	6	0.000	0.000	0	1.0000
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	0	1.0000	6	0.000	0.000	6	0.000	0.000	0	1.0000
Habitat Means			0.000	0.000		0.000	0.000	0			0.000	0.000		0.000	0.000	0	
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	0	1.0000	6	0.000	0.000	6	0.000	0.000	0	1.0000
94935C/31288	3	6	6.667	6.667	6	0.000	0.000	-	0.3632	6	5.175	5.175	6	0.000	0.000	+	0.3632
Habitat Means			3.334	3.334		0.000	0.000	-			2.588	2.588		0.000	0.000	+	
Fisher's	Power		---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's	Power		---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821	

y Direction of difference between habitat means is different than direction of overall tests.
 z Only one site pair.

Table D-91. Page 16. December 21, 1994

Table D-91. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Nucella lima - abundance (#/m^2)										Nucella lima - biomass (g/m^2)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o			
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966			
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000			
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	3	6	6.667	6.667	6	0.000	0.000	+	0.3632	6	5.175	5.175	6	0.000	0.000	+	0.3632		
Habitat Means			3.334	3.334		0.000	0.000	+			2.588	2.588		0.000	0.000	+			
Fisher's	Power		---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086			
Stouffer's	Power		---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821			

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

Table D-91. Page 17. December 21, 1994

Nucella lamellosa - abundance (#/m^2)										Nucella lamellosa - biomass (g/m^2)							
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	

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

Table D-91. Page 18. December 21, 1994

Table D-91. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Site Pair	MVD	Amphipoda - abundance (#/m ²)								Amphipoda - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	5.000	5.000	6	3300.000	2033.847	-	0.0038	6	0.008	0.008	6	12.697	8.738	-	0.0103
94935C/31288	1	5	4.000	2.449	6	16.667	12.824	-	0.6897	5	0.006	0.006	6	0.000	0.000	-	0.4494
Habitat Means			4.500	3.725		1658.334	1023.336	-			0.007	0.007		6.349	4.369	-	
Fisher's	Power	---			Power-50%	---	P-value	0.0055		Power	---		Power-50%	---	P-value	0.0260	
Stouffer's	Power	0.001			Power-50%	0.742	P-value	0.2800		Power	0.001		Power-50%	0.030	P-value	0.7227	
13.1C/13.1	2	6	23.333	19.607	6	1410.000	883.372	-	0.1352	6	0.047	0.036	6	4.788	2.960	-	0.2189
94935C/31288	2	6	0.000	0.000	6	97.117	91.175	-	0.1157	6	0.000	0.000	6	0.137	0.133	-	0.1888
Habitat Means			11.667	9.804		753.559	487.274	-			0.024	0.018		2.463	1.547	-	
Fisher's	Power	---			Power-50%	---	P-value	0.0256		Power	---		Power-50%	---	P-value	0.0576	
Stouffer's	Power	---			Power-50%	0.134	P-value	0.0479		Power	---		Power-50%	---	P-value	0.0822	
13.1C/13.1	3	6	15.000	6.708	6	288.333	108.579	-	0.0234	6	0.060	0.032	6	1.260	0.499	-	0.0094
94935C/31288	3	6	108.333	89.495	6	113.333	70.506	-	0.9647	6	0.050	0.035	6	0.087	0.055	-	0.8363
Habitat Means			61.667	48.102		200.833	89.543	-			0.055	0.034		0.674	0.277	-	
Fisher's	Power	---			Power-50%	---	P-value	0.0349		Power	---		Power-50%	---	P-value	0.0142	
Stouffer's	Power	0.000			Power-50%	0.050	P-value	0.4251		Power	0.000		Power-50%	0.021	P-value	0.3550	

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-91. Page 19. December 21, 1994

Site Pair	MVD	Isopoda - abundance (#/m ²)								Isopoda - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	5.000	3.000	-	0.3632	6	0.000	0.000	6	0.003	0.003	-	0.3632
94935C/31288	1	5	0.000	0.000	6	0.000	0.000	o	1.0000	5	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		2.500	2.500	-			0.000	0.000		0.002	0.002	-	
Fisher's	Power	---			Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's	Power	---			Power-50%	---	P-value	0.4768		Power	---		Power-50%	---	P-value	0.4768	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	3.333	3.333	6	0.000	0.000	+	0.3632	6	0.222	0.222	6	0.000	0.000	+	0.3632
Habitat Means			1.667	1.667		0.000	0.000	+			0.111	0.111		0.000	0.000	-	
Fisher's	Power	---			Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's	Power	---			Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821	
13.1C/13.1	3	6	38.333	31.029	6	8.333	4.773	+	0.1970	6	0.347	0.305	6	0.040	0.033	+	0.7362
94935C/31288	3	6	0.000	0.000	6	5.000	3.000	-	0.8262	6	0.000	0.000	6	0.003	0.003	-	0.3632
Habitat Means			19.167	15.515		6.667	4.887	+			0.174	0.153		0.022	0.018	-	
Fisher's	Power	0.100			Power-50%	0.048	P-value	0.2226		Power	0.014		Power-50%	0.029	P-value	0.3632 y	
Stouffer's	Power	0.350			Power-50%	0.161	P-value	0.5542		Power	0.001		Power-50%	0.112	P-value	0.1879	

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

Table D-91. Page 20. December 21, 1994

Table D-91. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Site Pair	MVD	Errant polychaetes - abundance (#/m ²)								Errant polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	5	24.000	14.353	6	1.667	1.667	+	0.0012	5	0.004	0.004	6	0.040	0.040	-	1.0000
Habitat Means			12.000	7.177		0.834	0.834	+			0.002	0.002		0.020	0.020	-	
Fisher's	Power	---			Power-50%	---		P-value	0.0027	Power	0.085		Power-50%	0.000		P-value	0.5966
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0006	Power	0.000		Power-50%	0.000		P-value	0.5000
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	34.050	16.338	6	60.000	60.000	-	0.0616	6	0.051	0.020	6	0.050	0.050	+	0.1469
Habitat Means			17.025	8.169		30.000	30.000	-			0.026	0.010		0.025	0.025	+	
Fisher's	Power	---			Power-50%	---		P-value	0.0797	Power	0.000		Power-50%	0.000		P-value	0.1581
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0310	Power	---		Power-50%	---		P-value	0.0738
13.1C/13.1	3	6	6.667	4.944	6	8.333	8.333	-	0.7699	6	0.047	0.039	6	0.130	0.130	-	0.7579
94935C/31288	3	6	366.667	133.208	6	141.667	141.667	+	0.0006	6	1.016	0.541	6	0.052	0.052	+	0.0017
Habitat Means			186.667	69.076		75.000	75.000	+			0.532	0.290		0.091	0.091	+	
Fisher's	Power	---			Power-50%	---		P-value	0.0018	Power	---		Power-50%	---		P-value	0.0045
Stouffer's	Power	---			Power-50%	0.199		P-value	0.0003	Power	---		Power-50%	---		P-value	0.0309

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

Table D-91. Page 21. December 21, 1994

Site Pair	MVD	Sedentary polychaetes - abundance (#/m ²)								Sedentary polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	5	102.000	87.144	6	0.000	0.000	+	0.0378	5	0.134	0.134	6	0.000	0.000	+	0.2819
Habitat Means			51.000	43.572		0.000	0.000	+			0.067	0.067		0.000	0.000	+	
Fisher's	Power	---			Power-50%	---		P-value	0.0535	Power	0.000		Power-50%	0.000		P-value	0.2574
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0191	Power	0.000		Power-50%	0.000		P-value	0.1414
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	118.567	75.863	6	1.667	1.667	+	0.0677	6	0.134	0.081	6	0.002	0.002	+	0.0353
Habitat Means			59.284	37.932		0.834	0.834	+			0.067	0.041		0.001	0.001	+	
Fisher's	Power	---			Power-50%	---		P-value	0.0860	Power	---		Power-50%	---		P-value	0.0506
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0341	Power	---		Power-50%	---		P-value	0.0178
13.1C/13.1	3	6	0.000	0.000	6	3.333	3.333	-	0.4303	6	0.000	0.000	6	0.005	0.005	-	0.4046
94935C/31288	3	6	81.667	39.616	6	5.000	5.000	-	0.0001	6	0.102	0.042	6	0.000	0.000	+	0.0001
Habitat Means			40.834	19.808		4.167	4.167	-			0.051	0.021		0.003	0.003	-	
Fisher's	Power	---			Power-50%	---		P-value	0.0004	Power	---		Power-50%	---		P-value	0.0004
Stouffer's	Power	---			Power-50%	0.000		P-value	0.0001	Power	---		Power-50%	---		P-value	0.0001

z Only one site pair.

Table D-91. Page 22. December 21, 1994

Table D-91. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. September 1990. (Continued.)

Site Pair	MVD	Oligochaeta - abundance (#/m ²)								Oligochaeta - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	30.000	30.000	6	23746.666	20447.418	-	0.1399	6	0.020	0.020	6	18.965	17.514	-	0.0163
94935C/31288	1	5	234.000	83.522	6	8635.167	5679.983	-	0.6089	5	0.092	0.025	6	6.744	3.676	-	0.1209
Habitat Means			132.000	56.761		16190.917	13063.701	-			0.056	0.023		12.855	10.595	-	
Fisher's		Power	0.000		Power-50%	0.049	P-value	0.1033		Power	---		Power-50%	---	P-value	0.0042	
Stouffer's		Power	0.000		Power-50%	0.166	P-value	0.2728		Power	---		Power-50%	---	P-value	0.0444	
13.1C/13.1	2	6	31.667	24.552	6	1740.000	1141.356	-	0.0823	6	0.020	0.018	6	1.042	0.800	-	0.1316
94935C/31288	2	6	293.100	261.875	6	1114.600	610.643	-	0.3896	6	0.018	0.018	6	0.586	0.452	-	0.3922
Habitat Means			162.384	143.214		1427.300	876.000	-			0.019	0.018		0.814	0.626	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0467		Power	---		Power-50%	---	P-value	0.0690	
Stouffer's		Power	0.002		Power-50%	0.123	P-value	0.1662		Power	0.001		Power-50%	0.054	P-value	0.1710	
13.1C/13.1	3	6	3.333	3.333	6	566.667	291.955	-	0.0711	6	0.000	0.000	6	0.192	0.087	-	0.1330
94935C/31288	3	6	458.333	211.698	6	225.033	211.105	+	0.4391	6	0.062	0.037	6	0.145	0.145	-	0.5039
Habitat Means			230.833	107.516		395.850	251.530	-			0.031	0.019		0.169	0.116	-	
Fisher's		Power	0.000		Power-50%	0.052	P-value	0.1272		Power	---		Power-50%	---	P-value	0.0853	
Stouffer's		Power	0.000		Power-50%	0.162	P-value	0.7443		Power	0.000		Power-50%	0.035	P-value	0.2228	

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

Table D-91. Page 23. December 21, 1994

Site Pair	MVD	Total Invertebrates - abundance (#/m ²)								Total Invertebrates - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	36.667	36.667	6	28738.334	23472.814	-	0.1185	6	0.028	0.028	6	37.675	28.505	-	0.0023
94935C/31288	1	5	6402.000	1451.852	6	8715.399	5740.787	-	0.9013	5	852.308	204.763	6	6.859	3.670	-	0.0023
Habitat Means			3219.334	744.260		18726.867	14606.801	-			426.168	102.396		22.267	16.088	-	
Fisher's		Power	0.000		Power-50%	0.173	P-value	0.1234		Power	---		Power-50%	---	P-value	0.0089 _{xy}	
Stouffer's		Power	0.000		Power-50%	0.327	P-value	0.4117		Power	0.001		Power-50%	0.165	P-value	0.9978	
13.1C/13.1	2	6	355.000	314.470	6	3256.667	2005.648	-	0.1030	6	5.717	5.617	6	35.741	10.545	-	0.0015
94935C/31288	2	6	4935.100	1132.823	6	1701.083	603.308	+	0.0714	6	959.971	584.142	6	7.896	6.894	+	0.0093
Habitat Means			2645.050	723.646		2478.875	1304.478	-			482.844	294.880		21.819	8.720	-	
Fisher's		Power	0.010		Power-50%	0.005	P-value	0.1485		Power	---		Power-50%	---	P-value	0.0061 _{xy}	
Stouffer's		Power	---		Power-50%	0.063	P-value	0.0450		Power	0.000		Power-50%	0.023	P-value	0.9916	
13.1C/13.1	3	6	4883.333	3137.162	6	2828.333	804.220	-	0.6270	6	402.192	256.842	6	271.221	72.921	+	0.1271
94935C/31288	3	6	8706.667	3993.365	6	3559.683	2869.010	-	0.2307	6	1133.193	611.683	6	207.626	206.772	+	0.0137
Habitat Means			6795.000	3565.264		3194.008	1836.615	+			767.693	434.263		239.424	139.847	+	
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1562		Power	---		Power-50%	---	P-value	0.0038	
Stouffer's		Power	0.005		Power-50%	0.005	P-value	0.1099		Power	---		Power-50%	---	P-value	0.0053	

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-91. Page 24. December 21, 1994

Table D-92. Invertebrate Abundance and Biomass. 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; 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.

Lottidae - abundance (#/m ²)											Lottidae - biomass (g/m ²)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P	
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
94935C/31288	1	6	5.000	3.416	6	0.000	0.000	-	0.1784		6	1.242	0.946	6	0.000	0.000	+	0.1763	
Habitat Means			2.500	1.708		0.000	0.000	.				0.621	0.473		0.000	0.000	.		
Fisher's		Power	0.403		Power-50%	0.195	P-value	0.1833			Power	0.185		Power-50%	0.078	P-value	0.1817		
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0896			Power	---		Power-50%	---	P-value	0.0886		
13.1C/13.1	2	6	0.000	0.000	6	5.000	3.416	-	0.2507		6	0.000	0.000	6	0.688	0.467	-	0.1813	
94935C/31288	2	6	23.333	23.333	6	1.667	1.667	+	0.5854		6	3.007	3.007	6	0.217	0.217	+	0.8126	
Habitat Means			11.667	11.667		3.334	2.542	-				1.504	1.504		0.453	0.342	-		
Fisher's		Power	0.237		Power-50%	---	P-value	0.3035 y			Power	0.257		Power-50%	---	P-value	0.2111 y		
Stouffer's		Power	0.620		Power-50%	---	P-value	0.6811			Power	0.632		Power-50%	---	P-value	0.5599		
13.1C/13.1	3	6	5.000	3.416	6	18.333	10.775	-	0.1441		6	0.862	0.545	6	5.082	2.615	-	0.2375	
94935C/31288	3	6	6.667	4.216	5	0.000	0.000	+	0.4765		6	0.765	0.486	5	0.000	0.000	+	0.1747	
Habitat Means			5.834	3.816		9.166	5.388	-				0.814	0.516		2.541	1.308	+		
Fisher's		Power	0.001		Power-50%	0.603	P-value	0.2142			Power	0.492		Power-50%	0.727	P-value	0.2744 y		
Stouffer's		Power	0.005		Power-50%	0.463	P-value	0.7314			Power	0.129		Power-50%	0.533	P-value	0.1004		

Lottia pelta - abundance (#/m ²)											Lottia pelta - biomass (g/m ²)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P	
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o				0.000	0.000		0.000	0.000	o		
Fisher's		Power	---		Power-50%	---	P-value	0.5966			Power	---		Power-50%	---	P-value	0.5966		
Stouffer's		Power	---		Power-50%	---	P-value	0.5000			Power	---		Power-50%	---	P-value	0.5000		
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000	
94935C/31288	2	6	0.000	0.000	6	1.667	1.667	-	0.3632		6	0.000	0.000	6	0.217	0.217	-	0.3632	
Habitat Means			0.000	0.000		0.834	0.834	-				0.000	0.000		0.109	0.109	-		
Fisher's		Power	---		Power-50%	---	P-value	0.3086			Power	---		Power-50%	---	P-value	0.3086		
Stouffer's		Power	---		Power-50%	---	P-value	0.1821			Power	---		Power-50%	---	P-value	0.1821		
13.1C/13.1	3	6	0.000	0.000	6	1.667	1.667	-	0.3420		6	0.000	0.000	6	0.272	0.272	-	0.3679	
94935C/31288	3	6	1.667	1.667	5	0.000	0.000	+	0.3644		6	0.302	0.302	5	0.000	0.000	-	0.3410	
Habitat Means			0.834	0.834		0.834	0.834	-				0.251	0.151		0.136	0.136	-		
Fisher's		Power	---		Power-50%	---	P-value	0.4149 y			Power	---		Power-50%	---	P-value	0.4136		
Stouffer's		Power	---		Power-50%	---	P-value	0.8008			Power	---		Power-50%	---	P-value	0.1860		

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

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

z Only one site pair.

Table D-92. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Tectura persona - abundance (#/m ²)								Tectura persona - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	5.000	3.416	6	0.000	0.000	-	0.1784	6	1.242	0.946	6	0.000	0.000	+	0.1763
Habitat Means			2.500	1.708		0.000	0.000	-			0.621	0.473		0.000	0.000	+	
Fisher's		Power	0.396		Power-50%	0.156	P-value	0.1833		Power	0.181		Power-50%	0.083	P-value	0.1817	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0896		Power	---		Power-50%	---	P-value	0.0886	
13.1C/13.1	2	6	0.000	0.000	6	5.000	3.416	-	0.1784	6	0.000	0.000	6	0.688	0.467	-	0.1752
94935C/31288	2	6	15.000	15.000	6	0.000	0.000	+	0.3632	6	2.522	2.522	6	0.000	0.000	-	0.3632
Habitat Means			7.500	7.500		2.500	1.708	-			1.261	1.261		0.344	0.234	-	
Fisher's		Power	0.229		Power-50%	---	P-value	0.2641 y		Power	0.247		Power-50%	---	P-value	0.2606 y	
Stouffer's		Power	0.625		Power-50%	---	P-value	0.7943		Power	0.636		Power-50%	---	P-value	0.7941	
13.1C/13.1	3	6	1.667	1.667	6	13.333	11.450	-	0.4190	6	0.442	0.442	6	4.315	2.816	-	0.4597
94935C/31288	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.834	0.834		6.667	5.725	-			0.221	0.221		2.158	1.408	-	
Fisher's		Power	0.014		Power-50%	---	P-value	0.3411		Power	0.384		Power-50%	---	P-value	0.3636	
Stouffer's		Power	0.071		Power-50%	---	P-value	0.4794		Power	0.646		Power-50%	---	P-value	0.4812	

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-92. Page 3. December 21, 1994

Site Pair	MVD	Tectura scutum - abundance (#/m ²)								Tectura scutum - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	3	6	0.000	0.000	6	1.667	1.667	-	0.3632	6	0.000	0.000	6	0.367	0.367	-	0.3632
94935C/31288	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.834	0.834	-			0.000	0.000		0.184	0.184	-	
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's		Power	---		Power-50%	---	P-value	0.4768		Power	---		Power-50%	---	P-value	0.4768	

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-92. Page 4. December 21, 1994

Table D-92. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Balanomorpha - abundance (#/m ²)											Balanomorpha - biomass (g/m ²)										
Site Pair	MVD	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P			
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	-	0.0000		6	0.000	0.000	6	0.000	0.000	+	0.0000			
94935C/31288	1	6	1328.883	914.729	6	0.000	0.000	+	0.0553		6	271.402	216.954	6	0.000	0.000	+	0.0415			
Habitat Means			664.442	457.365		1.667	1.667	-				135.701	108.477		0.079	0.079	+				
Fisher's		Power	0.000		Power-50%	0.001	P-value	0.1084			Power	---		Power-50%	---	P-value	0.0862				
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0318			Power	---		Power-50%	---	P-value	0.0240				
13.1C/13.1	2	6	25.000	23.058	6	1.667	1.667	-	0.3968		6	1.247	1.237	6	0.078	0.078	+	0.5530			
94935C/31288	2	6	1350.000	1121.544	6	15.000	15.000	+	0.1495		6	981.643	617.933	6	0.558	0.558	+	0.1291			
Habitat Means			687.500	572.301		8.334	8.334	-				491.445	309.585		0.318	0.318	+				
Fisher's		Power	---		Power-50%	---	P-value	0.0773			Power	---		Power-50%	---	P-value	0.0897				
Stouffer's		Power	---		Power-50%	0.091	P-value	0.0678			Power	---		Power-50%	---	P-value	0.0602				
13.1C/13.1	3	6	1045.000	910.182	6	2636.667	1274.299	-	0.1807		6	77.648	66.591	6	144.732	90.031	-	0.2492			
94935C/31288	3	6	842.783	509.331	5	0.000	0.000	+	0.0444		6	1654.204	1394.980	5	0.000	0.000	+	0.0450			
Habitat Means			943.892	709.757		1318.334	637.150	+				865.926	730.786		72.366	45.026	+				
Fisher's		Power	---		Power-50%	---	P-value	0.0990	y		Power	---		Power-50%	---	P-value	0.0971				
Stouffer's		Power	---		Power-50%	0.047	P-value	0.0274			Power	---		Power-50%	---	P-value	0.0270				

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

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

z Only one site pair.

Table D-92, Page 5, December 21, 1994

Chthamalus dalli - abundance (#/m ²)											Chthamalus dalli - biomass (g/m ²)										
Site Pair	MVD	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P			
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	+	0.0000		6	0.000	0.000	6	0.000	0.000	+	0.0000			
94935C/31288	1	6	161.667	161.667	6	0.000	0.000	+	0.3632		6	2.048	2.048	6	0.000	0.000	+	0.3632			
Habitat Means			80.834	80.834		0.000	0.000	+				1.024	1.024		0.000	0.000	+				
Fisher's		Power	---		Power-50%	---	P-value	0.3086			Power	---		Power-50%	---	P-value	0.3086				
Stouffer's		Power	---		Power-50%	---	P-value	0.1821			Power	---		Power-50%	---	P-value	0.1821				
13.1C/13.1	2	6	3.333	3.333	6	0.000	0.000	+	0.4420		6	0.038	0.038	6	0.000	0.000	-	0.2725			
94935C/31288	2	6	5.000	5.000	6	0.000	0.000	+	0.2531		6	0.010	0.010	6	0.000	0.000	-	0.4041			
Habitat Means			4.167	4.167		0.000	0.000	+				0.024	0.024		0.000	0.000	-				
Fisher's		Power	---		Power-50%	---	P-value	0.1280			Power	---		Power-50%	---	P-value	0.1264				
Stouffer's		Power	---		Power-50%	---	P-value	0.1171			Power	---		Power-50%	---	P-value	0.1834				
13.1C/13.1	3	6	30.000	30.000	6	201.667	112.559	-	0.2211		6	0.510	0.510	6	3.778	2.128	-	0.2348			
94935C/31288	3	6	21.667	21.667	5	0.000	0.000	+	0.3632		6	0.145	0.145	5	0.000	0.000	-	0.3632			
Habitat Means			25.834	25.834		100.834	56.280	-				0.328	0.328		1.889	1.064	-				
Fisher's		Power	0.004		Power-50%	---	P-value	0.3079			Power	0.002		Power-50%	---	P-value	0.3212				
Stouffer's		Power	0.024		Power-50%	---	P-value	0.7965			Power	0.013		Power-50%	---	P-value	0.7971				

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

Table D-92. Page 5. December 21, 1994

Table D-92. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Balanus glandula - abundance (#/m ²)										Balanus glandula - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	3.333	3.333	-	0.3632	6	0.000	0.000	6	0.158	0.158	-	0.3632		
94935C/31288	1	6	1016.667	825.892	6	0.000	0.000	+	0.1154	6	257.573	215.873	6	0.000	0.000	+	0.1064		
Habitat Means			508.334	412.946		1.667	1.667	+			128.787	107.937		0.079	0.079	+			
Fisher's		Power	0.000		Power-50%	0.000	P-value	0.1914		Power	0.000		Power-50%	0.000	P-value	0.1800			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0651		Power	---		Power-50%	---	P-value	0.0601			
13.1C/13.1	2	6	1.667	1.667	6	1.667	1.667	o	1.0000	6	0.418	0.418	6	0.078	0.078	+	0.8699		
94935C/31288	2	6	1165.000	1058.693	6	0.000	0.000	-	0.0874	6	673.323	601.672	6	0.000	0.000	+	0.0822		
Habitat Means			583.334	530.180		0.834	0.834	-			336.871	301.045		0.039	0.039	+			
Fisher's		Power	0.082		Power-50%	0.122	P-value	0.1054		Power	---		Power-50%	---	P-value	0.0898			
Stouffer's		Power	---		Power-50%	0.090	P-value	0.0440		Power	---		Power-50%	---	P-value	0.0405			
13.1C/13.1	3	6	70.000	68.020	6	1025.000	824.474	-	0.1701	6	11.370	11.298	6	102.558	83.132	-	0.5436		
94935C/31288	3	6	461.667	409.833	5	0.000	0.000	-	0.5189	6	204.250	185.126	5	0.000	0.000	+	0.2023		
Habitat Means			265.834	238.927		512.500	412.237	-			107.810	98.212		51.279	41.566	-			
Fisher's		Power	0.000		Power-50%	0.048	P-value	0.2371		Power	0.072		Power-50%	0.016	P-value	0.2658			
Stouffer's		Power	0.001		Power-50%	0.027	P-value	0.7108		Power	0.030		Power-50%	0.017	P-value	0.1086			

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

Table D-92. Page 7. December 21, 1994

Semibalanus balanoides - abundance (#/m ²)										Semibalanus balanoides - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	6	73.883	59.830	6	0.000	0.000	+	0.0918	6	9.007	6.206	6	0.000	0.000	-	0.0913		
Habitat Means			36.942	29.915		0.000	0.000	+			4.504	3.103		0.000	0.000	-			
Fisher's		Power	0.017		Power-50%	0.011	P-value	0.1096		Power	0.002		Power-50%	0.000	P-value	0.1091			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0462		Power	---		Power-50%	---	P-value	0.0459			
13.1C/13.1	2	6	16.667	16.667	6	0.000	0.000	+	0.3169	6	0.575	0.575	6	0.000	0.000	-	0.6897		
94935C/31288	2	6	6.667	4.944	6	15.000	15.000	-	0.6134	6	1.902	1.840	6	0.558	0.558	-	0.3552		
Habitat Means			11.667	10.806		7.500	7.500	+			1.239	1.208		0.279	0.279	-			
Fisher's		Power	0.271		Power-50%	0.391	P-value	0.3525		Power	0.059		Power-50%	0.076	P-value	0.2323			
Stouffer's		Power	0.744		Power-50%	0.299	P-value	0.6700		Power	0.152		Power-50%	0.056	P-value	0.1716			
13.1C/13.1	3	6	803.333	672.392	6	1306.667	878.463	-	0.5380	6	62.927	52.089	6	33.857	20.605	+	0.4831		
94935C/31288	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000		
Habitat Means			401.667	336.196		653.334	439.232	-			31.464	26.045		16.929	10.303	-			
Fisher's		Power	0.000		Power-50%	0.010	P-value	0.4043		Power	0.013		Power-50%	0.005	P-value	0.3761			
Stouffer's		Power	0.000		Power-50%	0.061	P-value	0.4843		Power	0.088		Power-50%	0.051	P-value	0.4821			

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

Table D-92. Page 8. December 21, 1994

Table D-92. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Lacuna spp. - abundance (#/m ²)								Lacuna spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	3	6	3.333	3.333	5	0.000	0.000	-	0.3632	6	0.035	0.035	5	0.000	0.000	+	0.3632
Habitat Means			1.667	1.667		0.000	0.000	-			0.018	0.018		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's		Power	---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821	

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

Table D-92, Page 9. December 21, 1994

Site Pair	MVD	Littorina spp. - abundance (#/m ²)								Littorina spp. - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	696.117	229.723	6	8.883	8.883	+	0.0001	6	29.749	10.449	6	0.000	0.000	+	0.0002
Habitat Means			348.059	114.862		4.442	4.442	+			14.875	5.225		0.000	0.000	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0003		Power	---		Power-50%	---	P-value	0.0003	
Stouffer's		Power	---		Power-50%	---	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0001	
13.1C/13.1	2	6	5.000	3.416	6	31.667	21.042	-	0.6069	6	0.058	0.044	6	18.930	13.734	-	0.4588
94935C/31288	2	6	1068.333	594.157	6	80.550	66.436	+	0.0023	6	27.910	12.911	6	3.509	3.490	+	0.0042
Habitat Means			536.667	298.787		56.109	43.739	+			13.984	6.478		11.220	8.612	+	
Fisher's		Power	---		Power-50%	---	P-value	0.0065		Power	---		Power-50%	---	P-value	0.0120	
Stouffer's		Power	---		Power-50%	---	P-value	0.0013		Power	---		Power-50%	---	P-value	0.0025	
13.1C/13.1	3	6	283.333	219.373	6	620.000	348.530	-	0.4246	6	12.525	7.752	6	195.277	102.330	-	0.0252
94935C/31288	3	6	803.900	389.776	5	73.200	52.595	+	0.1076	6	23.802	13.956	5	8.223	5.903	+	0.8456
Habitat Means			543.617	304.575		346.600	200.563	+			18.164	10.854		101.750	54.117	+	
Fisher's		Power	0.001		Power-50%	0.001	P-value	0.1763		Power	---		Power-50%	---	P-value	0.0431	
Stouffer's		Power	---		Power-50%	0.033	P-value	0.0600		Power	0.000		Power-50%	0.020	P-value	0.5203	

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

Table D-92, Page 10. December 21, 1994

Table D-92. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Littorina sitkana - abundance (#/m ²)										Littorina sitkana - Biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	6	619.450	198.884	6	8.883	8.883	+	0.0001	6	29.203	10.417	6	0.000	0.000	+	0.0044		
Habitat Means			309.725	99.442		4.442	4.442	+			14.602	5.209		0.000	0.000	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0003		Power	---		Power-50%	---	P-value	0.0086			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0001		Power	---		Power-50%	---	P-value	0.0022			
13.1C/13.1	2	6	5.000	3.416	6	31.667	21.042	-	0.6158	6	0.058	0.044	6	18.930	13.734	-	0.3892		
94935C/31288	2	6	820.000	522.117	6	80.550	66.436	+	0.0082	6	25.295	11.787	6	3.509	3.490	+	0.0125		
Habitat Means			412.500	262.767		56.109	43.739	+			12.677	5.916		11.220	8.612	-			
Fisher's		Power	---		Power-50%	---	P-value	0.0195		Power	---		Power-50%	---	P-value	0.0317			
Stouffer's		Power	---		Power-50%	0.131	P-value	0.0046		Power	---		Power-50%	---	P-value	0.0074			
13.1C/13.1	3	6	283.333	219.373	6	620.000	348.330	-	0.3294	6	12.525	7.752	6	195.277	102.330	-	0.0249		
94935C/31288	3	6	459.450	208.544	5	73.200	52.595	+	0.2872	6	19.916	11.947	5	8.223	5.903	-	0.8835		
Habitat Means			371.392	213.959		346.600	200.563	+			16.221	9.850		101.750	54.117	-			
Fisher's		Power	0.001		Power-50%	0.002	P-value	0.3743		Power	---		Power-50%	---	P-value	0.0415			
Stouffer's		Power	0.026		Power-50%	0.035	P-value	0.1587		Power	0.000		Power-50%	0.015	P-value	0.5011			

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

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

z Only one site pair.

Littorina scutulata - abundance (#/m ²)										Littorina scutulata - biomass (g/m ²)									
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P		
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	1	6	76.667	44.711	6	0.000	0.000	+	0.0117	6	0.547	0.282	6	0.000	0.000	+	0.0064		
Habitat Means			38.334	22.356		0.000	0.000	+			0.274	0.141		0.000	0.000	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0200		Power	---		Power-50%	---	P-value	0.0119			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0059		Power	---		Power-50%	---	P-value	0.0033			
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	2	6	248.333	108.179	6	0.000	0.000	+	0.0005	6	2.615	1.182	6	0.000	0.000	+	0.0001		
Habitat Means			124.167	54.090		0.000	0.000	+			1.308	0.591		0.000	0.000	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0012		Power	---		Power-50%	---	P-value	0.0003			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0003		Power	---		Power-50%	---	P-value	0.0001			
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000		
94935C/31288	3	6	344.450	182.054	5	0.000	0.000	+	0.0356	6	3.886	2.079	5	0.000	0.000	+	0.0363		
Habitat Means			172.225	91.027		0.000	0.000	+			1.943	1.040		0.000	0.000	+			
Fisher's		Power	---		Power-50%	---	P-value	0.0509		Power	---		Power-50%	---	P-value	0.0517			
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0180		Power	---		Power-50%	---	P-value	0.0183			

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

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

z Only one site pair.

Table D 92. Page 11. December 21, 1994																	
Table D 92. Page 12. December 21, 1994																	

Table D 92, Page 11, December 21, 1994

Table D 92, Page 12, December 21, 1994

Table D-92. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula, Coarse Textured, May 1991. (Continued.)

Site Pair	MVD	Mytilus edulis - abundance (#/m ²)								Mytilus edulis - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	58.333	56.357	6	0.000	0.000	+	0.2182	6	3.007	2.852	6	0.000	0.000	+	0.1840
Habitat Means			29.167	28.179		0.000	0.000	+			1.504	1.426		0.000	0.000	+	
Fisher's		Power	0.010		Power-50%	0.005	P-value	0.2132		Power	0.016		Power-50%	0.010	P-value	0.1876	
Stouffer's		Power	0.000		Power-50%	0.000	P-value	0.1095		Power	---		Power-50%	---	P-value	0.0924	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	1521.667	1304.312	6	86.117	86.117	+	0.0046	6	72.162	40.277	6	184.664	184.664	+	0.0070
Habitat Means			760.834	652.156		43.059	43.059	-			36.081	20.139		92.332	92.332	-	
Fisher's		Power	---		Power-50%	---	P-value	0.0089		Power	---		Power-50%	---	P-value	0.0129	
Stouffer's		Power	---		Power-50%	0.000	P-value	0.0023		Power	---		Power-50%	---	P-value	0.0036	
13.1C/13.1	3	6	3.333	2.108	6	380.000	330.484	-	0.2874	6	0.040	0.036	6	194.933	151.008	-	0.1637
94935C/31288	3	6	721.667	340.249	5	3.200	3.200	+	0.0611	6	89.107	41.313	5	0.000	0.000	+	0.0001
Habitat Means			362.500	171.179		191.600	166.842	+			44.574	20.675		97.467	75.504	+	
Fisher's		Power	0.000		Power-50%	0.060	P-value	0.1215		Power	---		Power-50%	---	P-value	0.0005	y
Stouffer's		Power	---		Power-50%	0.223	P-value	0.0358		Power	---		Power-50%	---	P-value	0.0001	

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

Table D-92, Page 13, December 21, 1994

Site Pair	MVD	Turtonia minuta - abundance (#/m ²)								Turtonia minuta - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's		Power	---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's		Power	---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	8.333	8.333	6	0.000	0.000	+	0.3632	6	0.013	0.013	6	0.000	0.000	-	0.3632
Habitat Means			4.167	4.167		0.000	0.000	+			0.007	0.007		0.000	0.000	-	
Fisher's		Power	---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's		Power	---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821	
13.1C/13.1	3	6	0.000	0.000	6	16.667	16.667	-	1.0000	6	0.000	0.000	6	0.010	0.010	-	0.1637
94935C/31288	3	6	105.000	105.000	5	0.000	0.000	+	0.2986	6	0.117	0.117	5	0.000	0.000	-	0.2795
Habitat Means			52.500	52.500		8.334	8.334	+			0.059	0.059		0.005	0.005	-	
Fisher's		Power	---		Power-50%	---	P-value	0.2684		Power	---		Power-50%	---	P-value	0.2572	y
Stouffer's		Power	---		Power-50%	---	P-value	0.1498		Power	---		Power-50%	---	P-value	0.8390	

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

Table D-92, Page 14, December 21, 1994

Table D-92. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Table D 92, Page 15, December 21, 1994

Table D 92, Page 16, December 21, 1994

Table D-92. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Nucella lima - abundance (#/m^2)										Nucella lima - biomass (g/m^2)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.5966	Power		---		Power-50%		---	P-value	0.5966
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
94935C/31288	2	6	1.667	1.667	6	0.000	0.000	+	0.3632	6	0.460	0.460	6	0.000	0.000	+	0.3632	
Habitat Means			0.834	0.834		0.000	0.000	+			0.230	0.230		0.000	0.000	+		
Fisher's	Power		---		Power-50%		---	P-value	0.3086	Power		---		Power-50%		---	P-value	0.3086
Stouffer's	Power		---		Power-50%		---	P-value	0.1821	Power		---		Power-50%		---	P-value	0.1821
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
94935C/31288	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.5966	Power		---		Power-50%		---	P-value	0.5966
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000

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

Table D-92, Page 17, December 21, 1994

Nucella lamellosa - abundance (#/m^2)										Nucella lamellosa - biomass (g/m^2)								
Site Pair	MVD	N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P	
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.5966	Power		---		Power-50%		---	P-value	0.5966
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.5966	Power		---		Power-50%		---	P-value	0.5966
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000
13.1C/13.1	3	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000	
94935C/31288	3	6	0.000	0.000	5	0.000	0.000	o	1.0000	6	0.000	0.000	5	0.000	0.000	o	1.0000	
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o		
Fisher's	Power		---		Power-50%		---	P-value	0.5966	Power		---		Power-50%		---	P-value	0.5966
Stouffer's	Power		---		Power-50%		---	P-value	0.5000	Power		---		Power-50%		---	P-value	0.5000

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-92, Page 18, December 21, 1994

Table D-92. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Amphipoda - abundance (#/m ²)											Amphipoda - biomass (g/m ²)										
Site Pair	MVD	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P			
13.1C/13.1	1	6	0.000	0.000	6	6.667	4.944	-	0.1830		6	0.000	0.000	6	0.233	0.201	-	0.1629			
94935C/31288	1	6	0.000	0.000	6	14.217	9.402	-	0.1759		6	0.000	0.000	6	0.107	0.107	-	0.5150			
Habitat Means			0.000	0.000		10.442	7.173	-				0.000	0.000		0.170	0.154	-				
Fisher's		Power	---		Power-50%	---	P-value	0.0469			Power	0.153		Power-50%	---	P-value	0.1020				
Stouffer's		Power	---		Power-50%	---	P-value	0.0755			Power	0.064		Power-50%	---	P-value	0.2301				
13.1C/13.1	2	6	230.000	117.303	6	1.667	1.667	+	0.0287		6	1.485	0.873	6	0.005	0.005	+	0.0283			
94935C/31288	2	6	0.000	0.000	6	3.333	3.333	-	0.3632		6	0.000	0.000	6	0.025	0.025	-	0.3632			
Habitat Means			115.000	58.652		2.500	2.500	+				0.743	0.437		0.015	0.015	+				
Fisher's		Power	---		Power-50%	---	P-value	0.0639			Power	---		Power-50%	---	P-value	0.0632				
Stouffer's		Power	0.048		Power-50%	0.076	P-value	0.7786			Power	0.072		Power-50%	0.098	P-value	0.7785				
13.1C/13.1	3	6	73.333	65.659	6	278.333	237.689	-	0.3222		6	1.085	0.907	6	7.507	7.185	-	0.2653			
94935C/31288	3	6	130.000	128.010	5	12.000	12.000	+	0.5835		6	2.672	2.652	5	0.070	0.070	+	0.6625			
Habitat Means			101.667	96.835		145.167	124.845	-				1.879	1.780		3.789	3.628	-				
Fisher's		Power	0.028		Power-50%	0.062	P-value	0.3618			Power	0.011		Power-50%	0.057	P-value	0.3036				
Stouffer's		Power	0.014		Power-50%	0.041	P-value	0.6856			Power	0.008		Power-50%	0.046	P-value	0.6421				

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

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

z Only one site pair.

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Isopoda - abundance (#/m ²)											Isopoda - biomass (g/m ²)										
Site Pair	MVD	N	C	SE	N	O	SE	D	P		N	C	SE	N	O	SE	D	P			
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000			
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000			
Habitat Means			0.000	0.000		0.000	0.000	o				0.000	0.000		0.000	0.000	o				
Fisher's		Power	---		Power-50%	---	P-value	0.5966			Power	---		Power-50%	---	P-value	0.5966				
Stouffer's		Power	---		Power-50%	---	P-value	0.5000			Power	---		Power-50%	---	P-value	0.5000				
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000			
94935C/31288	2	6	0.000	0.000	6	0.000	0.000	o	1.0000		6	0.000	0.000	6	0.000	0.000	o	1.0000			
Habitat Means			0.000	0.000		0.000	0.000	o				0.000	0.000		0.000	0.000	o				
Fisher's		Power	---		Power-50%	---	P-value	0.5966			Power	---		Power-50%	---	P-value	0.5966				
Stouffer's		Power	---		Power-50%	---	P-value	0.5000			Power	---		Power-50%	---	P-value	0.5000				
13.1C/13.1	3	6	1.667	1.667	6	0.000	0.000	+	0.3632		6	0.002	0.002	6	0.000	0.000	+	0.3632			
94935C/31288	3	6	0.000	0.000	5	0.000	0.000	o	1.0000		6	0.000	0.000	5	0.000	0.000	o	1.0000			
Habitat Means			0.834	0.834		0.000	0.000	+				0.001	0.001		0.000	0.000	+				
Fisher's		Power	---		Power-50%	---	P-value	0.3086			Power	---		Power-50%	---	P-value	0.3086				
Stouffer's		Power	---		Power-50%	---	P-value	0.4768			Power	---		Power-50%	---	P-value	0.4768				

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

Table D-92. Page 19. December 21, 1994

Table D-92. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Errant polychaetes - abundance (#/m ²)								Errant polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	1	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
Habitat Means			0.000	0.000		0.000	0.000	o			0.000	0.000		0.000	0.000	o	
Fisher's	Power		---		Power-50%	---	P-value	0.5966		Power	---		Power-50%	---	P-value	0.5966	
Stouffer's	Power		---		Power-50%	---	P-value	0.5000		Power	---		Power-50%	---	P-value	0.5000	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	35.000	22.472	6	0.000	0.000	+	0.1749	6	0.017	0.012	6	0.000	0.000	+	0.1775
Habitat Means			17.500	11.236		0.000	0.000	+			0.009	0.006		0.000	0.000	+	
Fisher's	Power		0.658		Power-50%	0.300	P-value	0.1806		Power	0.340		Power-50%	0.134	P-value	0.1826	
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0879		Power	---		Power-50%	---	P-value	0.0892	
13.1C/13.1	3	6	5.000	5.000	6	53.333	45.802	-	0.5816	6	0.012	0.012	6	0.185	0.123	-	0.4362
94935C/31288	3	6	176.667	105.219	5	51.060	37.306	+	0.1809	6	1.125	0.736	5	0.053	0.038	+	0.3982
Habitat Means			90.834	55.110		52.197	41.554	+			0.569	0.374		0.119	0.081	+	
Fisher's	Power		0.004		Power-50%	0.275	P-value	0.2403		Power	0.002		Power-50%	0.017	P-value	0.4452	
Stouffer's	Power		---		Power-50%	0.208	P-value	0.0967		Power	0.006		Power-50%	0.018	P-value	0.2138	

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

Table D-92. Page 21. December 21, 1994

Site Pair	MVD	Sedentary polychaetes abundance (#/m ²)								Sedentary polychaetes - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
94935C/31288	1	6	8.883	8.883	6	0.000	0.000	+	0.3632	6	0.001	0.001	6	0.000	0.000	+	0.3632
Habitat Means			4.442	4.442		0.000	0.000	+			0.001	0.001		0.000	0.000	+	
Fisher's	Power		---		Power-50%	---	P-value	0.3086		Power	---		Power-50%	---	P-value	0.3086	
Stouffer's	Power		---		Power-50%	---	P-value	0.1821		Power	---		Power-50%	---	P-value	0.1821	
13.1C/13.1	2	6	0.000	0.000	6	0.000	0.000	o	1.0000	6	0.000	0.000	6	0.000	0.000	o	1.0000
94935C/31288	2	6	71.667	43.773	6	0.000	0.000	+	0.0971	6	0.029	0.028	6	0.000	0.000	+	0.2876
Habitat Means			35.834	21.887		0.000	0.000	+			0.015	0.014		0.000	0.000	+	
Fisher's	Power		0.009		Power-50%	0.006	P-value	0.1145		Power	0.001		Power-50%	0.002	P-value	0.2612	
Stouffer's	Power		---		Power-50%	0.000	P-value	0.0489		Power	0.000		Power-50%	0.000	P-value	0.2443	
13.1C/13.1	3	6	0.000	0.000	6	288.333	288.333	-	0.2899	6	0.000	0.000	6	0.118	0.118	-	0.3014
94935C/31288	3	6	55.000	53.025	5	0.000	0.000	+	0.2696	6	0.098	0.098	5	0.000	0.000	+	0.4123
Habitat Means			27.500	26.513		144.167	144.167	+			0.049	0.049		0.059	0.059	+	
Fisher's	Power		0.003		Power-50%	0.002	P-value	0.3643 y		Power	0.000		Power-50%	0.000	P-value	0.3737	
Stouffer's	Power		0.000		Power-50%	0.000	P-value	0.1505		Power	0.025		Power-50%	0.000	P-value	0.7740	

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

Table D-92. Page 22. December 21, 1994

Table D-92. Invertebrate Abundance and Biomass. Kodiak/Alaska Peninsula. Coarse Textured. May 1991. (Continued.)

Site Pair	MVD	Oligochaeta - abundance (#/m ²)								Oligochaeta - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	6421.117	5680.084	-	0.1572	6	0.000	0.000	6	13.422	12.606	-	0.0914
94935C/31288	1	6	264.450	128.836	6	7344.333	2427.710	-	0.1208	6	0.061	0.035	6	3.322	1.962	-	0.0022
Habitat Means			132.225	64.418		6882.725	4053.897	-			0.031	0.018		8.372	7.284	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0301	Power	---		Power-50%	---		P-value	0.0005
Stouffer's		Power	---		Power-50%	0.000		P-value	0.0506	Power	---		Power-50%	---		P-value	0.0008
13.1C/13.1	2	6	991.667	728.406	6	3346.667	2347.202	-	0.3678	6	1.580	1.298	6	6.662	5.188	-	0.2782
94935C/31288	2	6	290.000	68.654	6	7741.867	2649.296	-	0.0085	6	0.053	0.025	6	6.627	3.602	-	0.1648
Habitat Means			640.834	398.530		5344.267	2498.249	-			0.817	0.662		6.645	4.395	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0064	Power	---		Power-50%	---		P-value	0.0627
Stouffer's		Power	---		Power-50%	0.149		P-value	0.0036	Power	---		Power-50%	---		P-value	0.0727
13.1C/13.1	3	6	300.000	216.441	6	1221.667	698.591	-	0.4468	6	0.048	0.028	6	0.517	0.376	-	0.5484
94935C/31288	3	6	1490.000	752.865	5	2537.200	1535.653	-	0.4104	6	0.769	0.432	5	1.985	1.086	-	0.1467
Habitat Means			895.000	484.653		1879.434	1117.122	-			0.409	0.230		1.251	0.731	-	
Fisher's		Power	0.022		Power-50%	0.000		P-value	0.1872	Power	---		Power-50%	---		P-value	0.0987
Stouffer's		Power	0.115		Power-50%	0.033		P-value	0.1922	Power	---		Power-50%	---		P-value	0.0685

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

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Site Pair	MVD	Total Invertebrates - abundance (#/m ²)								Total Invertebrates - biomass (g/m ²)							
		N	C	SE	N	O	SE	D	P	N	C	SE	N	O	SE	D	P
13.1C/13.1	1	6	0.000	0.000	6	6512.783	5757.874	-	0.1620	6	0.000	0.000	6	13.814	12.537	-	0.0342
94935C/31288	1	6	2554.450	957.461	6	7538.533	2485.026	-	0.2797	6	306.317	215.259	6	3.429	1.942	-	0.0400
Habitat Means			1277.225	478.731		7025.658	4121.450	-			153.159	107.630		8.621	7.240	-	
Fisher's		Power	---		Power-50%	---		P-value	0.0621	Power	---		Power-50%	---		P-value	0.0853 _{xy}
Stouffer's		Power	0.026		Power-50%	0.000		P-value	0.1214	Power	0.017		Power-50%	0.000		P-value	0.9722
13.1C/13.1	2	6	1255.000	765.161	6	3418.333	2336.130	-	0.4858	6	4.377	1.661	6	26.434	13.953	-	0.7750
94935C/31288	2	6	6110.000	2444.177	6	8478.634	2558.146	-	0.4460	6	1087.028	631.083	6	195.868	188.334	-	0.1428
Habitat Means			3682.500	1604.669		5948.484	2447.138	-			545.703	316.372		111.151	101.144	-	
Fisher's		Power	0.000		Power-50%	0.000		P-value	0.2121	Power	0.000		Power-50%	0.000		P-value	0.1806
Stouffer's		Power	0.004		Power-50%	0.007		P-value	0.2105	Power	---		Power-50%	---		P-value	0.0743
13.1C/13.1	3	6	2235.000	1203.771	6	5788.333	2151.242	-	0.1812	6	92.349	71.471	6	548.632	257.149	-	0.6738
94935C/31288	3	6	7237.216	2110.530	5	3236.660	1698.667	+	0.1527	6	1841.844	1446.887	5	10.511	5.936	-	0.1183
Habitat Means			4736.108	1657.151		4512.497	1924.955	+			967.097	759.179		279.572	131.543	-	
Fisher's		Power	0.000		Power-50%	0.001		P-value	0.2546	Power	0.000		Power-50%	0.000		P-value	0.1662
Stouffer's		Power	---		Power-50%	0.011		P-value	0.0898	Power	---		Power-50%	---		P-value	0.0627

y Direction of difference between habitat means is different than direction of overall tests.
z Only one site pair.

Table D-92, Page 24. December 21, 1994

Table D-93 Body length and width data for limpets collected from PWS sheltered rocky quadrat semi-circles. T-tests were performed to determine if the differences between paired sites were statistically significant (column labeled p-value). Differences among all site pairs were tested with both Fishers and Stouffers methods for combining p-values. Nc and No = number of quadrats used in analyses on control and oiled sites, respectively; C = control site mean; O = oiled site mean; Diff = direction of difference of means with respect to the control site: "+" = control > oiled; "-" = control < oiled; "=" = no difference; and "---" = insufficient or no data.

<i>Lottia pelta</i>												
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VALUE
1990	May	4825/1424	5	13	4.41	6.56	-	0.0505	2.97	4.45	-	0.0583
		453C/453	12	13	6.11	6.49	-	0.6506	4.11	4.54	-	0.4709
		601C/601	15	14	5.76	4.95	+	0.2935	3.91	3.36	+	0.3209
		598C/598	11	13	4.75	5.91	-	0.1705	3.09	4.05	-	0.1144
		1522C/1522	11	3	4.80	7.18	-	0.0114	3.26	4.83	-	0.0192
	FISHERS TEST							0.0050				
	STOUFFERS TEST							0.0340				
1990	Jul	4825/1424	9	11	3.31	3.61	-	0.6387	5.41	5.96	-	0.5581
		453C/453	14	11	5.08	4.63	+	0.6969	7.69	6.91	+	0.6372
		601C/601	11	7	2.95	2.58	+	0.2801	4.50	3.93	+	0.2433
		598C/598	14	11	3.69	3.48	+	0.7323	5.60	5.25	+	0.7237
		1522C/1522	10	13	3.32	3.90	-	0.3066	5.04	5.91	-	0.2754
	FISHERS TEST							0.5151				
	STOUFFERS TEST							0.3259				
1991	May	4825/1424	10	15	5.86	5.64	+	0.8183	4.02	3.93	+	0.8906
		453C/453	12	15	7.11	6.51	+	0.6438	4.72	4.50	+	0.7227
		601C/601	9	14	5.67	5.97	-	0.5725	4.09	4.07	+	0.9750
		598C/598	14	10	5.69	5.89	-	0.8151	3.96	4.19	-	0.7245
		1522C/1522	11	11	6.12	6.32	-	0.8264	4.23	4.42	-	0.7813
	FISHERS TEST							0.6392				
	STOUFFERS TEST							0.4680				

(x) = At least one site pair with a p-value < 0.1000 in opposite direction of overall test

Table D-93 (continued). Body length and width data for limpets collected from PWS sheltered rocky quadrat semi-circles.

<i>Tectura persona</i>												
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VALUE
1990	May	4825/1424	9	3	6.46	5.67	+	0.4253	4.44	3.58	+	0.2388
		453C/453	5	4	8.13	7.76	+	0.7081	5.40	5.17	+	0.7567
		601C/601	7	5	7.22	5.91	+	0.1359	4.96	4.38	+	0.3601
		598C/598	9	8	5.96	7.11	-	0.1127	4.11	4.82	-	0.1820
		1522C/1522	8	3	6.77	7.00	-	0.8183	4.58	5.08	-	0.4948
	FISHERS TEST							0.3043	0.4076			
	STOUFFERS TEST							0.7340	0.7384			
	Jul	4825/1424	4	0	5.48	---	---	---	7.98	---	---	---
		453C/453	6	7	5.35	4.98	+	0.0897	8.22	7.52	+	0.1395
		601C/601	11	7	4.98	4.52	+	0.7609	7.52	6.85	+	0.7055
598C/598		12	10	3.85	4.47	-	0.0742	5.93	6.70	-	0.1464	
1522C/1522		7	8	4.26	4.59	-	0.2737	6.38	6.73	-	0.3344	
FISHERS TEST							0.3718	(x)	0.4406			
STOUFFERS TEST							0.6410	0.6778				
1991	May	4825/1424	8	4	8.27	6.02	+	0.0814	5.92	4.11	+	0.0715
		453C/453	4	3	8.55	7.13	+	0.6952	5.68	5.46	+	0.9306
		601C/601	7	6	8.29	7.82	+	0.6411	5.76	5.51	+	0.7030
		598C/598	8	6	6.72	7.25	-	0.5260	4.80	4.86	-	0.9138
		1522C/1522	4	3	7.65	8.28	-	0.7809	5.15	5.84	-	0.6690
	FISHERS TEST							0.2597	0.2643			
	STOUFFERS TEST							0.4969	0.4161			

(x) - At least one site pair with a p-value < 0.1000 in opposite direction of overall test

<i>Lottia pelta</i>												
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VAL
1990	Jun	14.1C/14.1	8	13	7.98	6.45	+	0.2928	5.21	4.23	+	0.3061
		14.2C/14.2	11	8	6.08	4.80	+	0.3899	3.95	3.09	+	0.3836
		62762C/50983	7	8	6.72	6.23	+	0.7662	4.33	4.16	+	0.8773
	FISHERS TEST							0.1718	0.1909			
	STOUFFERS TEST							0.2072	0.2479			
	1990	Aug	14.1C/14.1	10	8	8.25	6.19	+	0.1796	5.60	4.18	+
14.2C/14.2			6	10	6.69	7.77	-	0.5167	4.41	5.39	+	0.3977
62762C/50983			6	7	8.94	11.02	-	0.2477	6.33	7.67	+	0.2863
FISHERS TEST							0.3142	0.2930				
STOUFFERS TEST							0.1951	0.2010				
1991		May	14.1C/14.1	12	11	7.31	6.52	+	0.5396	4.77	4.49	+
	14.2C/14.2		9	12	5.54	5.40	+	0.9227	3.52	3.68	+	0.8636
	62762C/50983		9	9	7.97	8.59	-	0.6729	4.89	5.82	+	0.3357
	FISHERS TEST							0.5454	0.4035			
	STOUFFERS TEST							0.5728	0.2016			

Table D-94 (continued). Body length and width data for limpets collected from CIK sheltered rocky quadrat semi-circles.

<i>Tectura persona</i>													
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)				P-VAL
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VAL	
1990	Jun	14.1C/14.1	6	4	8.87	6.78	+	0.0084	5.95	4.67	+	0.0035	
		14.2C/14.2	1	3	7.63	9.19	-	---	4.78	6.21	-	---	
		62762C/50983	2	3	6.96	7.56	-	0.0007	4.49	5.02	-	0.0001	
	FISHERS TEST							0.0031 (x)					
	STOUFFERS TEST							0.0081					
1990	Aug	14.1C/14.1	3	1	6.27	16.23	-	---	4.27	12.41	-	---	
		14.2C/14.2	1	5	5.10	12.33	-	---	3.74	8.93	-	---	
		62762C/50983	5	6	8.05	8.44	-	0.4234	5.78	5.76	+	0.3388	
	FISHERS TEST												
	STOUFFERS TEST												
1991	May	14.1C/14.1	0	4	---	9.22		---	---	6.11		---	
		14.2C/14.2	0	0	---	---		---	---	---		---	
		62762C/50983	6	5	10.48	6.92	+	0.6664	6.54	4.58	+	0.8297	
	FISHERS TEST												
	STOUFFERS TEST												

(x) = At least one site pair with a p-value < 0.1000 in opposite direction of overall test.

Table D-95 Body length and width data for limpets collected from KAP sheltered rocky quadrat semi-circles. T-tests were performed to determine if the differences between paired sites were statistically significant (column labeled p-value). Differences among all site pairs were tested with both Fishers and Stouffers methods for combining p-values. Nc and No = number of quadrats used in analyses on control and oiled sites, respectively; C = control site mean; O = oiled site mean; Diff = direction of difference of means with respect to the control site: "+" = control > oiled; "-" = control < oiled; "=" = no difference; and "---" = insufficient or no data.

<i>Lottia palta</i>												
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VAL
1990	Jun	30196C/30196	9	6	6.62	9.15	-	0.4188	4.38	6.24	-	0.1599
		31252C/31248	13	12	4.61	5.43	-	0.1289	3.05	3.72	-	0.1235
		31252C/31252	13	9	4.61	5.39	-	0.8726	3.05	3.45	-	0.6870
		99826C/33141	11	5	7.13	5.87	+	0.1830	4.61	3.74	+	0.1982
	FISHERS TEST							0.2341	0.1130			
	STOUFFERS TEST							0.0970	0.0321			
	1990	Aug	30196C/30196	6	2	8.35	13.01	-	0.0456	5.53	9.30	-
31252C/31248			6	8	7.10	7.96	-	0.3999	5.01	5.29	-	0.4749
31252C/31252			6	8	7.10	6.68	+	0.3951	5.01	4.56	+	0.4355
99826C/33141			8	3	7.98	4.26	+	0.4066	5.13	2.84	+	0.2533
FISHERS TEST							0.1663	0.1211				
STOUFFERS TEST							0.0534	0.0370				
1991		May	30196C/30196	9	9	7.39	11.14	-	0.6766	4.84	7.31	-
	31252C/31248		12	15	4.78	5.39	-	0.8159	3.10	3.55	-	0.7405
	31252C/31252		12	9	4.78	4.67	+	0.0295	3.10	3.10	+	0.0743
	99826C/33141		14	3	6.64	5.38	+	0.9852	4.43	3.75	+	0.7846
	FISHERS TEST							0.1640	0.2665			
	STOUFFERS TEST							0.3693	0.5068			

Table 95 (continued). Body length and width data for limpets collected from KAP sheltered rocky quadrat semi-circles.

<i>Tectura neritina</i>													
Year	Visit	Site Pair	Nc	No	Length (mm.)				P-VALUE	Width (mm.)			
					C	O	DIFF			C	O	DIFF	P-VALUE
1990	Jun	30196C/30196	1	3	15.14	10.19	+	---		9.78	6.15	+	---
		31252C/31248	10	11	7.08	6.25	+	0.3356		4.49	3.95	+	0.7592
		31252C/31252	10	8	7.08	7.25	-	0.6171		4.49	4.73	-	0.7471
		99826C/33141	6	2	8.18	5.99	+	0.8262		5.24	3.88	+	0.4779
	FISHERS TEST								0.4147				
	STOUFFERS TEST								0.3127				
													0.4534
													0.4412
	Aug	30196C/30196	1	0	5.33	---		---		3.75	---		---
		31252C/31248	11	10	8.09	7.06	+	0.8132		5.54	4.85	+	0.9155
		31252C/31252	11	6	8.09	7.51	+	0.6975		5.54	5.22	+	0.7679
		99826C/33141	7	4	10.90	6.51	+	0.9419		7.31	4.62	+	0.4630
	FISHERS TEST								0.5585				
	STOUFFERS TEST								0.3995				
													0.4542
													0.4144
1991	May	30196C/30196	1	2	8.79	10.48	-	---		5.67	7.17	-	1.0000
		31252C/31248	7	8	6.77	6.20	+	0.0604		4.46	3.98	+	0.0859
		31252C/31252	7	10	6.77	6.88	-	0.3285		4.46	4.61	-	0.2418
		99826C/33141	6	2	8.81	7.82	+	0.2533		5.98	5.12	+	0.9475
	FISHERS TEST								0.0743				
	STOUFFERS TEST								0.1468				
													0.3070
													0.3483

<i>Lottia pelta</i>												
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VAL
1990	Jun	506C/506	14	8	4.56	5.50	-	0.1760	3.07	3.70	-	0.2160
		1598C/1598	8	6	3.85	5.51	-	0.0516	2.50	3.52	-	0.1010
		846C/846	6	10	3.76	5.04	-	0.1172	2.41	3.34	-	0.1175
		1650C/1650	10	4	4.45	4.52	-	0.9355	2.83	2.93	-	0.8792
	FISHERS TEST							0.0130				0.0233
	STOUFFERS TEST							0.0134				0.0254
1990	Jul	506C/506	6		8.54	5.62	+	0.0123	11.47	8.18	+	0.0436
		1598C/1598	3		4.18	4.77	-	0.6956	5.59	6.93	-	0.5330
		846C/846	3		4.58	5.12	-	0.7744	6.30	7.56	-	0.6372
		1650C/1650	8		4.51	3.78	+	0.5144	6.34	5.50	+	0.6001
	FISHERS TEST							0.0646				0.1777
	STOUFFERS TEST							0.6071				0.7164
1991	May	506C/506	12		4.67	5.09	-	0.4010	3.24	3.52	-	0.2902
		1598C/1598	6		4.55	7.69	-	0.0102	3.14	5.23	-	0.0127
		846C/846	7		4.30	5.33	-	0.2310	2.91	3.75	-	0.0913
		1650C/1650	7		4.63	3.97	+	---	3.08	2.78	+	---
	FISHERS TEST							0.0060				0.0026
	STOUFFERS TEST							0.0028				0.0022

Table D-96 (continued). Body length and width data for limpets collected from PWS coarse textured quadrat semi-circles.

<i>Tectura persona</i>												
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VALUE
1990	Jun	506C/506	7	5	4.90	7.28	-	0.0223	3.25	4.88	-	0.0287
		1598C/1598	7	9	5.98	6.02	-	0.9610	3.89	4.28	-	0.5307
		846C/846	4	12	4.70	5.37	-	0.5070	3.18	3.73	-	0.4424
		1650C/1650	10	3	5.51	5.66	-	0.8955	3.63	3.70	-	0.9344
	FISHERS TEST							0.0629	0.0472			
	STOUFFERS TEST							0.3929	0.2047			
1990	Jul	506C/506	10	3	5.05	6.67	-	0.0595	6.93	9.36	-	0.0355
		1598C/1598	6	7	4.74	5.83	-	0.1306	6.92	8.33	-	0.1444
		846C/846	4	7	5.33	5.50	-	0.8257	7.36	7.52	-	0.8772
		1650C/1650	11	3	4.73	5.44	-	0.3074	6.60	7.78	-	0.3392
	FISHERS TEST							0.0212	0.0177			
	STOUFFERS TEST							0.0423	0.0502			
1991	Aug	506C/506	9	5	6.51	7.76	-	0.2896	4.52	5.32		0.3439
		1598C/1598	5	6	5.76	7.48	-	0.1800	4.17	5.02		0.3555
		846C/846	3	10	4.71	7.48	-	0.0500	3.14	5.29		0.0363
		1650C/1650	6	3	6.02	6.49	-	0.7508	4.29	4.35		0.9573
	FISHERS TEST							0.0211	0.0362			
	STOUFFERS TEST							0.0331	0.0742			

Table D-97 Body length and width data for limpets collected from CIK coarse textured quadrat semi-circles. T-tests were performed to determine if the differences between paired sites were statistically significant (column labeled p-value). Differences among all site pairs were tested with both Fishers and Stouffers methods for combining p-values. Nc and No = number of quadrats used in analyses on control and oiled sites, respectively; C = control site mean; O = oiled site mean; Diff = direction of difference of means with respect to the control site: "+" = control > oiled; "-" = control < oiled; "=" = no difference; and "---" = insufficient or no data.

Lottia pelta

Year	Visit	Site Pair	Nc	No	C	O	DIFF	P-VALUE	C	O	DIFF	P-VAL
1990	Jul	50389C/50389	2	0	3.53	---	---	---	2.35	---	---	---
		51091C/51091	1	0	9.59	---	---	---	5.72	---	---	---
		62802C/50226	3	4	4.62	6.03	-	0.0992	3.40	4.04	-	0.1769
		FISHERS TEST										
		STOUFFERS TEST										
1990	Aug	50389C/50389	3	5	4.50	6.72	-	0.4968	3.13	4.83	-	0.2924
		51091C/51091	1	1	8.56	4.98	+	---	5.67	3.54	+	---
		62802C/50226	0	2	---	6.74	---	---	---	4.50	---	---
		FISHERS TEST										
		STOUFFERS TEST										
1991	May	50389C/50389	2	5	5.78	9.00	-	0.3115	3.61	5.98	-	0.2979
		51091C/51091	1	0	5.32	---	---	---	3.36	---	---	---
		62802C/50226	0	7	---	6.02	---	---	---	4.29	---	---
		FISHERS TEST										
		STOUFFERS TEST										

Table D-97 (continued). Body length and width data for limpets collected from CIK coarse textured quadrat semi-circles.

Tectura persona												
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VALUE
1990	Jul	50389C/50389	2	4	7.599	10.305	-	0.1240	4.833	6.951	-	0.0770
		51091C/51091	0	0	---	---		---	---	---		---
		62802C/50226	5	6	7.609	7.821	-	0.7214	5.256	5.181	+	0.9667
	FISHERS TEST							0.1743	0.1615			
	STOUFFERS TEST							0.1370	0.1667			
1990	Aug	50389C/50389	1	6	7.96	12.28		---	5.78	8.63		---
		51091C/51091	0	0	---	---		---	---	---		---
		62802C/50226	0	4	---	9.94		---	---	6.91		---
	FISHERS TEST											
	STOUFFERS TEST											
1991	May	50389C/50389	1	4	7.480	9.707		---	5.023	6.415		---
		51091C/51091	0	0	---	---		---	---	---		---
		62802C/50226	2	8	6.041	6.585		0.0084	4.171	4.270		0.0030
	FISHERS TEST											
STOUFFERS TEST												

Table D-98 Body length and width data for limpets collected from KAP coarse textured quadrat semi-circles. T-tests were performed to determine if the differences between paired sites were statistically significant (column labeled p-value). Differences among all site pairs were tested with both Fishers and Stouffers methods for combining p-values. Nc and No = number of quadrats used in analyses on control and oiled sites, respectively; C = control site mean; O = oiled site mean; Diff = direction of difference of means with respect to the control site: "+" = control > oiled; "-" = control < oiled; "=" = no difference; and "---" = insufficient or no data.

Lottia delta

Year	Visit	Site Pair	Nc	No	Fisher's Method				Stouffer's Method			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VALUE
1990	Jul	94935C/3128	6	0	6.81	---	-	---	4.46	---	-	---
		13.1C/13.1	1	1	6.04	9.47	-	---	4.34	6.14	-	---
1990	Sep	94935C/3128	4	1	8.91	5.03	+	---	5.96	3.58	+	---
		13.1C/13.1	3	1	5.08	8.47	-	---	3.35	6.59	-	---
1991	May	94935C/3128	8	1	5.00	4.82	+	---	3.40	2.85	+	---

Table 2-28 (continued). Body length and width data for limpets collected from KAP coarse textured quadrat semi-circles.

Coarse textured quadrats												
Year	Visit	Site Pair	Nc	No	1990				1991			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VALUE
1990	TN.3	94935C/3128	5	0	8.54	---	---	---	5.40	---	---	---
		13.1C/13.1	7	6	10.55	8.45	+	0.5804	6.94	5.32	+	0.5604
1990	TN.6	94935C/3128	3	1	7.65	6.24	+	---	5.63	4.21	+	---
		13.1C/13.1	4	5	9.68	9.58	+	0.1214	6.40	6.28	+	0.0442
1991	TN.9	94935C/3128	6	1	9.04	5.54	+	---	6.21	3.69	+	---
		13.1C/13.1	2	9	8.74	9.75	-	0.0223	5.80	6.52	-	0.0067

Table D-99 Body length and width data for limpets collected from PWS estuary quadrat semi-circles. T-tests were performed to determine if the differences between paired sites were statistically significant (column labeled p-value). Differences among all site pairs were tested with both Fishers and Stouffers methods for combining p-values. Nc and No = number of quadrats used in analyses on control and oiled sites, respectively; C = control site mean; O = oiled site mean; Diff = direction of difference of means with respect to the control site: "+" = control > oiled; "-" = control < oiled; "=" = no difference; and "---" = insufficient or no data.

<i>Lottia pelta</i>													
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)				
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VALUE	
1990	Jun	P15.1C/P15.1	1	1	6.67	4.59	+	---	4.57	3.26	+	---	
		2397C/208-09	7	1	4.88	5.40	-	---	3.15	3.58	-	---	
FISHERS TEST													
STOUFFERS TEST													
1990	Aug	P15.1C/P15.1	0	0	---	---	---	---	---	---	---	---	
		2397C/208-09	6	5	8	7.54	-	0.6853	8.93	10.91	-	0.5093	
FISHERS TEST													
STOUFFERS TEST													
1991	Jun	P15.1C/P15.1	0	0	---	---	---	---	---	---	---	---	
		2397C/208-09	3	6	8.88	8.35	+	0.8157	6.38	5.77	+	0.9005	
FISHERS TEST													
STOUFFERS TEST													

Table D-99 (continued). Body length and width data for limpets collected from PWS estuary quadrat semi-circles.

<i>Tectura persona</i>												
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VALUE
1990	Jun	P15.1C/P15.1	2	0	14.86	---			10.32	---		---
		2397C/208-09	7	7	7.10	7.19	-	0.7984	4.68	4.81	-	0.2159
FISHERS TEST												
STOUFFERS TEST												
1990	Jul	P15.1C/P15.1	0	0	---	---			---	---		
		2397C/208-09	3	5	6.27	6.78	-	0.053	3.47	9.53	-	0.0251
FISHERS TEST												
STOUFFERS TEST												
1991	May	P15.1C/P15.1	1	0	10.91	---		---	7.55	---		---
		2397C/208-09	5	8	7.69	15.81	-	0.0758	5.43	4.51	+	0.1129
FISHERS TEST												
STOUFFERS TEST												

Table D-100 Body length and width data for limpets collected from CIK estuary quadrat semi-circles. T-tests were performed to determine if the differences between paired sites were statistically significant (column labeled p-value). Differences among all site pairs were tested with both Fishers and Stouffers methods for combining p-values. Nc and No = number of quadrats used in analyses on control and oiled sites, respectively; C = control site mean; O = oiled site mean; Diff = direction of difference of means with respect to the control site: "+" = control > oiled; "-" = control < oiled; "=" = no difference; and "---" = insufficient or no data.

Lottia delta

Year	Visit	Site Pair	Nc	No	C	O	DIFF	P-VALUE	C	O	DIFF	P-VALUE
1990	Jun	C15.1C/C15.1	4	8	8.86	9.47	-	0.3139	6.22	6.19	+	0.2704
		50981C/50221	3	2	10.35	9.58	+	0.8050	7.24	6.63	+	0.9878
		50981C/50981	3	1	10.35	7.31	+	---	7.24	5.14	+	---
		FISHERS TEST						0.3157				0.7993
		STOUFFERS TEST						0.2954				0.7852
1990	Jul	C15.1C/C15.1	3	6	18.47	9.17	+	0.0114	12.97	6.40	+	0.0122
		50981C/50221	5	0	11.28	---	---	---	8.36	---	---	---
		50981C/50981	5	1	11.28	8.98	+	---	8.36	6.34	+	---
		FISHERS TEST										
		STOUFFERS TEST										
1991	May	C15.1C/C15.1	1	5	6.96	7.42	-	---	4.50	4.95	-	0.5597
		50981C/50221	0	1	---	14.21	---	---	---	10.46	---	---
		50981C/50981	0	3	---	9.28	---	---	---	6.26	---	---
		FISHERS TEST										
		STOUFFERS TEST										

Table D-100 (continued). Body length and width data for limpets collected from CIK estuary quadrat semi-circles.

<i>Tectura persona</i>												
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VALUE
1990	Jun	C15.1C/C15.1	7	2	10.64	7.95	+	0.3534	6.72	5.42	+	0.0202
		50981C/50221	2	1	9.87	15.81	-	---	6.73	11.87	-	---
		50981C/50981	2	1	9.87	10.32	-	---	6.73	7.38	-	---
		FISHERS TEST										
STOUFFERS TEST												
1990	Jul	C15.1C/C15.1	9	3	14.73	8.19	+	0.7378	10.59	5.93	+	0.6573
		50981C/50221	0	0	---	---	---	---	---	---	---	---
		50981C/50981	0	3	---	14.36	---	---	---	10.26	---	---
		FISHERS TEST										
STOUFFERS TEST												
1991	May	C15.1C/C15.1	4	5	11.53	8.01	+	0.8255	8.150	5.320	+	0.4500
		50981C/50221	2	1	15.38	10.72	+	---	10.460	7.380	+	---
		50981C/50981	2	1	15.38	14.11	+	---	10.460	10.410	+	---
		FISHERS TEST										
STOUFFERS TEST												

Table D-101 Body length and width data for limpets collected from PWS exposed rocky quadrat semi-circles. T-tests were performed to determine if the differences between paired sites were statistically significant (column labeled p-value). Differences among all site pairs were tested with both Fishers and Stouffers methods for combining p-values. Nc and No = number of quadrats used in analyses on control and oiled sites, respectively; C = control site mean; O = oiled site mean; Diff = direction of difference of means with respect to the control site: "+" = control > oiled; "-" = control < oiled; "=" = no difference; and "---" = insufficient or no data.

<i>Lottia pelta</i>												
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VALUE
1990	Jun	19C/19	9	10	6.76	4.90	+	0.0301	4.32	3.20	+	0.0476
		1642C/833	7	7	5.95	4.36	+	0.1085	3.89	2.70	+	0.0686
		4537C/979	7	10	5.16	4.80	+	0.6802	3.22	3.08	+	0.8174
		FISHERS TEST						0.0119				
		STOUFFERS TEST						0.0484				0.0137
	Aug	19C/19	0	4	---	6.29		---	---	9.18		---
		1642C/833	4	5	4.43	7.29	-	0.6867	6.17	10.71	-	0.9629
		4537C/979	4	6	6.04	4.06	+	0.8715	8.56	5.68	+	0.5894
		FISHERS TEST						0.5117				0.4399
		STOUFFERS TEST						0.4761				0.3281
1991	Jun	19C/19	16	11	5.09	5.74	-	0.3956	3.46	3.71	-	0.6023
		1642C/833	12	8	5.30	5.22	+	0.9310	3.43	3.36	+	0.8962
		4537C/979	7	8	5.42	5.06	+	0.7295	3.52	3.30	+	0.7318
		FISHERS TEST						0.6784				0.6317
		STOUFFERS TEST						0.4565				0.4155

Table D-101 (continued). Body length and width data for limpets collected from PWS exposed rocky quadrat semi-circles.

<i>Tectura persona</i>												
Year	Visit	Site Pair	Nc	No	Length (mm.)				Width (mm.)			
					C	O	DIFF	P-VALUE	C	O	DIFF	P-VALUE
1990	Jun	19C/19	5	6	7.25	7.68	-	0.7513	4.97	5.08	-	0.9149
		1642C/833	5	2	7.99	9.32	-	0.6131	5.28	6.49	-	0.5644
		4537C/979	6	2	5.61	5.99	-	0.4707	3.57	4.10	-	0.2033
		FISHERS TEST						0.3013				0.1932
		STOUFFERS TEST						0.1767				0.0864
1990	Aug	19C/19	0	6	---	7.47		---	---	10.57		---
		1642C/833	2	0	---	---		---	8.99	---		---
		4537C/979	5	4	5.04	5.50	-	0.7405	7.26	---	-	0.4325
		FISHERS TEST										
		STOUFFERS TEST										
1991	Jun	19C/19	6	6	5.37	8.31	-	0.9572	3.95	5.30	-	0.8673
		1642C/833	3	0	6.29	---		---	4.22	---		---
		4537C/979	6	4	4.20	8.64	-	0.0572	2.64	5.53	-	0.9861
		FISHERS TEST						0.0724				0.5436
		STOUFFERS TEST						0.0358				0.4736

Table D-102 Swath organisms from Prince William Sound sheltered **rocky** sites. Columns separate data for year, visit, and **oil** (O) or control (C) sites. Visits occurred in May and July for visits 1 and 2 in 1990, respectively, and in May and June for visits 1 and 2 in 1991, respectively. Organisms from sites of a given visit and oil code were combined to obtain overall data which are listed as raw counts. The number of swaths searched (N) and the total number of organisms found (Tot) for each visit and oil code are listed at the bottom of the table. The total number of organisms in each class is summed at the head of the individual taxonomic groups.

Swath Data	1990				1991			
	Visit 1		Visit 2		Visit 1		Visit 2	
PWS/Sheltered Rocky	C	O	C	O	C	O	C	O
Porifera								
Porifera, unidentified	0	0	0	0	0	0	0	0
Cnidaria								
Anthozoa (total)	9	1	1	2	0	7	0	0
Anthozoa, unidentified	9	1	1	2	0	3	0	0
<i>Anthopleura</i> sp.	0	0	0	0	0	0	0	0
<i>Anthopleura xanthogrammica</i>	0	0	0	0	0	3	0	0
<i>Urticina</i> sp.	0	0	0	0	0	1	0	0
<i>Urticina crassicornus</i>	0	0	0	0	0	0	0	0
Mollusca								
Polyplocophora (total)	3	0	0	0	0	0	1	0
Polyplocophora, unidentified	0	0	0	0	0	0	0	0
<i>Cryptochiton stelleri</i>	0	0	0	0	0	0	0	0
<i>Mopalia muwsoni</i>	3	0	0	0	0	0	0	0
<i>Katharina tunicata</i>	0	0	0	0	0	0	1	0
<i>Schizoplax brandtii</i>	0	0	0	0	0	0	0	0
<i>Tonicella lineata</i>	0	0	0	0	0	0	0	0
Gastropoda (total)	0	0	0	0	0	0	0	0
Gastropoda, unidentified	0	0	0	0	0	0	0	0
Nudibranchia	0	0	0	0	0	0	0	0
Arthropoda								
Crustacea (total)	0	0	0	0	0	0	0	0
Decapoda	0	0	0	0	0	0	0	0
Echinodermata								
Echinoderm, unidentified	0	0	0	0	0	1	0	0
Asteroidea (total)	6	16	6	1	8	3	3	5
Asteroidea, unidentified	1	8	0	0	3	0	0	0
<i>Pisaster ochraceus</i>	1	4	3	0	0	0	0	3
<i>Pycnopodia helianthoides</i>	3	2	3	0	2	2	1	1
<i>Leptasterias hexactis</i>	0	0	0	0	2	0	0	0
<i>Demasterias imbricata</i>	1	1	0	0	1	0	0	0
<i>Evasterias troschelii</i>	0	0	0	1	0	1	2	0
<i>Solaster</i> sp.	0	1	0	0	0	0	0	1
<i>Henricia</i> sp.	0	0	0	0	0	0	0	1
Echinoidea (total)	0	0	0	0	1	0	0	0
<i>Strongylocentrotus dmebachiensis</i>	0	0	0	0	1	0	0	0
Ophiuroidea (total)	0	0	0	0	0	0	0	0
Ophiuroidea, unidentified	0	0	0	0	0	0	0	0
1990 V1	OILED	N=27	TOT=17		1991 V1	OILED	N=30	TOT=13
	CONTROL	N=26	TOT=18			CONTROL	N=28	TOT=9
V2	OILED	N=28	TOT=3		V2	OILED	N=30	TOT=5
	CONTROL	N=27	TOT=8			CONTROL	N=30	TOT=4

Table D-103 Swath organisms from Cook Inlet-Kenai Peninsula sheltered rocky sites. Columns separate data for year, visit, and oil (O) or control (C) sites. Visits occurred in June and August for visits 1 and 2 in 1990, respectively, and in May and June for visits 1 and 2 in 1991, respectively. Organisms from sites of a given visit and oil code were combined to obtain overall data which are listed as raw counts. The number of swaths searched (N) and the total number of organisms found (Tot) for each visit and oil code are listed at the bottom of the table. The total number of organisms in each class is summed at the head of the individual taxonomic groups.

Swath Data CIK/Sheltered Rocky	1990				1991			
	Visit 1		Visit 2		Visit 1		Visit 2	
	C	O	C	O	C	O	C	O
Porifera								
Porifera, unidentified	0	0	0	0	0	0	0	0
Cnidaria								
Anthozoa (total)	3	3	0	2	2	0	2	1
Anthozoa, unidentified	0	0	0	1	0	0	0	0
<i>Anthopleura</i> sp.	0	0	0	0	0	0	1	0
<i>Anthopleura xantheogrammica</i>	2	0	0	0	2	0	2	0
<i>Urticina</i> sp.	0	0	0	1	0	0	0	0
<i>Urticina crassicornis</i>	1	3	0	0	0	0	0	0
Mollusca								
Polyplocophora (total)	4	1	0	2	36	4	28	2
Polyplocophora, unidentified	4	0	0	0	11	0	3	0
<i>Cryptochiton stelleri</i>	0	0	0	0	0	0	0	0
<i>Mopalia mucosa</i>	0	0	0	0	0	0	0	0
<i>Katharina tunicata</i>	0	0	0	0	23	4	24	2
<i>Schizoplax brandtii</i>	0	0	0	0	0	0	1	0
<i>Tonicella lineata</i>	0	1	0	2	2	0	0	0
Gastropoda (total)	0	0	0	0	0	0	0	0
Gastropoda, unidentified	0	0	0	0	0	0	0	0
Nudibranchia	0	0	0	0	0	0	0	0
Arthropoda								
Crustacea (total)	0	0	0	0	0	0	0	0
Decapoda	0	0	0	0	0	0	0	0
Echinodermata								
Asteroidea (total)	27	15	9	12	6	2	102	24
Asteroidea, unidentified	1	0	3	0	1	2	0	1
<i>Pisaster ochraceus</i>	25	9	4	5	1	0	102	21
<i>Pycnopodia helianthoides</i>	0	0	0	4	2	0	0	2
<i>Leptasterias hexactis</i>	0	0	0	0	0	0	0	0
<i>Dermasterias imbricata</i>	1	1	2	1	0	0	0	0
<i>Evasterias troschelii</i>	0	0	0	0	0	0	0	0
<i>Solaster</i> sp.	0	0	0	1	0	0	0	0
<i>Henricia</i> sp.	0	2	0	0	0	0	0	0
Echinoidea (total)	0	0	0	0	2	0	0	0
<i>Strongylocentrotus droebachiensis</i>	0	0	0	0	0	0	0	0
Ophiuroidea (total)	0	0	0	0	1	0	0	0
Ophiuroidea, unidentified	0	0	0	0	1	0	0	0
1990 V1	OILED	N=17	TOT=19		1991 V1	OILED	N=18	TOT=6
	CONTROL	N=15	TOT=34			CONTROL	N=18	TOT=48
V2	OILED	N=18	TOT=17		V2	OILED	N=18	TOT=41
	CONTROL	N=14	TOT=9			CONTROL	N=18	TOT=162

Table D-104 Swath organisms from Kodiak-Alaska Peninsula sheltered **rocky** sites. Columns separate data for year, visit, and oil (O) or control (C) sites. Visits occurred in June and August for visits 1 and 2 in 1990, respectively, and in May for visit 1 in 1991. Organisms from sites of a given visit and oil code were combined to obtain overall data which are listed as raw counts. The number of swaths searched (N) and the total number of organisms found (Tot) for each visit and oil code are listed at the bottom of the table. The total number of organisms in each class is summed at the head of the individual taxonomic groups.

Swath Data		1990				1991			
		Visit 1		Visit 2		Visit 1		Visit 2	
		C	O	C	O	C	O	C	O
KAP/Sheltered Rocky									
Porifera									
Porifera, unidentified		2	0	0	0	0	0	NOT	
midaria								SAMPLED	
Anthozoa (total)		3	2	0	0	14	27		
Anthozoa, unidentified		3	2	0	0	0	0		
Anthopleura sp.		0	0	0	0	0	0		
Anthopleura xanthogrammica		0	0	0	0	14	27		
Urticina sp.		0	0	0	0	0	0		
Urticina crasicornus		0	0	0	0	0	0		
Hydrozoa (total)		0	0	0	0	0	0		
Hydrozoa, unidentified		0	0	0	0	0	0		
Actiniidae		0	0	0	0	0	0		
Mollusca									
Polyplacophora (total)		1	0	0	0	5	9		
Polyplacophora, unidentified		1	0	0	0	0	0		
Cryptochiton stelleri		0	0	0	0	0	0		
Mopalia mucosa		0	0	0	0	0	0		
Katharina tunicata		0	0	0	0	5	9		
Schizoplax brandtii		0	0	0	0	0	0		
Tonicellalineata		0	0	0	0	0	0		
Gastropods (total)		0	0	0	0	0	0		
Gastropoda, unidentified		0	0	0	0	0	0		
Nudibranchia		0	0	0	0	0	0		
Arthropoda									
Crustacea (total)		0	0	0	0	0	0		
Decapoda		0	0	0	0	0	0		
Echinodermata									
Aateroidea (total)		4	0	1	10	1	0		
Asteroidea, unidentified		3	0	1	10	0	0		
Pisaster ochraceus		0	0	0	0	0	0		
Pycnopodia helianthoides		1	0	0	0	0	0		
Leptasterias hexactis		0	0	0	0	1	0		
Demasterias imbricata		0	0	0	0	0	0		
Evasterias troschelii		0	0	0	0	0	0		
Solaster sp.		0	0	0	0	0	0		
Henricia sp.		0	0	0	0	0	0		
Echinoidea (total)		0	0	0	0	0	0		
Strongylocentrotus droebachiensis		0	0	0	0	0	0		
Holothuroidea (total)		0	3	0	0	0	2		
Holothuroidea, unidentified		0	3	0	0	0	0		
Cucumaria sp.		0	0	0	0	0	2		
Ophiuroidea (total)		0	0	0	0	0	0		
Ophiuroidea, unidentified		0	0	0	0	0	0		
1990 V1	OILED	N=23	m	5	1991 V1	OILED	N=24	TOT=38	
	CONTROL	N=21	TOT=10			CONTROL	N=18	TOT=20	
V2	OILED	N=14	TOT=10		V2	OILED	N=--	TOT=--	
	CONTROL	N=9	TOT=1			CONTROL	N=--	TOT=--	

Table D-105 Swath organisms from Prince William Sound exposed **rocky** sites. Columns separate data for year, visit, and oil (O) or control (C) sites. Visits occurred in June and August for visits **1** and **2** in 1990, respectively, and in June and July for visits **1** and **2** in 1991. Organisms from sites of a given visit and oil code were combined to obtain overall data which are listed as raw counts. The number of swaths searched (N) and the total number of organisms found (Tot) for each visit and oil code are listed at the bottom of the table. The total number of organisms in each class is summed at the head of the individual taxonomic groups.

Swath Data PWS/Exposed Rocky		1990				1991			
		Visit 1		Visit 2		Visit 1		Visit 2	
		C	O	C	O	C	O	C	O
Porifera									
	Porifera, unidentified	0	0	0	0	0	0	1	0
Cnidaria									
	Anthozoa (total)	3	3	0	4	22	3	4	1
	Anthozoa, unidentified	3	3	0	2	1	1	2	0
	<i>Anthopleura</i> sp.	0	0	0	0	15	1	0	0
	<i>Anthopleura xanthogrammica</i>	0	0	0	0	5	0	2	0
	<i>Urticina</i> sp.	0	0	0	0	0	1	0	0
	<i>Urticina crassicornus</i>	0	0	0	2	1	0	0	1
	Hydrozoa (total)	0	0	0	0	0	2	0	0
	Hydrozoa, unidentified	0	0	0	0	0	0	0	0
	Actiniidae	0	0	0	0	0	2	0	0
Mollusca									
	Polyplocophora (total)	0	1	0	4	0	3	0	3
	Polyplocophora, unidentified	0	1	0	4	0	0	0	0
	<i>Cryptochiton stelleri</i>	0	0	0	0	0	0	0	0
	<i>Mopalia muwsa</i>	0	0	0	0	0	0	0	0
	<i>Katharina tunicata</i>	0	0	0	0	0	3	0	3
	<i>Schizoplax brandtii</i>	0	0	0	0	0	0	0	0
	<i>Tonicella lineata</i>	0	0	0	0	0	0	0	0
	Gastropoda (total)	0	0	0	0	0	0	0	0
	Gastropoda, unidentified	0	0	0	0	0	0	0	0
	Nudibranchia	0	0	0	0	0	0	0	0
Arthropoda									
	Crustacea (total)	0	0	0	0	0	0	1	1
	Decapoda	0	0	0	0	0	0	1	1
Echinodermata									
	Echinoderm, unidentified	0	0	0	0	0	3	0	2
	Asteroidea (total)	21	30	46	19	10	59	9	40
	Asteroidea, unidentified	0	0	2	0	1	0	0	2
	<i>Pisaster ochraceus</i>	8	4	4	12	0	38	1	25
	<i>Pycnopodia helianthoides</i>	5	24	39	7	7	12	4	10
	<i>Leptasterias hexactis</i>	8	0	0	0	0	1	0	0
	<i>Dermasterias imbricata</i>	1	0	0	0	1	3	1	2
	<i>Evasterias troschelii</i>	0	1	2	0	1	2	2	0
	<i>Solaster</i> sp.	0	0	0	0	0	1	0	0
	<i>Henricia</i> sp.	0	0	0	0	0	0	1	0
	Echinoidea (total)	0	0	0	0	0	1	0	0
	Echinoidea, unidentified	0	0	0	0	0	1	0	0
	<i>Strongylocentrotus droebachiensis</i>	0	0	0	0	0	0	0	0
	Ophiuroidea (total)	0	0	0	0	0	0	0	0
	Ophiuroidea, unidentified	0	0	0	0	0	0	0	0
1990 V1		OILED	N=22	TOT=56	1991 V1		OILED	N=16	TOT=64
V2		CONTROL	N=24	TOT=19	V2		CONTROL	N=18	TOT=32
		OILED	N=17	TOT=15			OILED	N=16	TOT=42
		CONTROL	N=17	TOT=26			CONTROL	N=18	TOT=15