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# Benthic Infaunal Surveys of British Columbia fjords, 1988 to 1990

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## ABSTRACT

Burd, B.J. and R.O. Brinkhurst. 1992. Benthic infaunal surveys of British Columbia fjords, 1988 to 1990. Can. Data Rep. Hydrogr. Ocean Sci. 114: 37pp.

This report tabulates the data collected during three separate benthic infaunal surveys of British Columbia mainland fjords. Benthic faunal samples, sediment particle size and depth data were collected in a series of fjords in 1988, 1989 and 1990. The work was conducted as part of the benthic ecology program in the Ecology Division of the Institute of Ocean Sciences, Sidney, B.C.

Keywords: benthic infauna, fjords

## RESUME

Burd, B.J. and R.O. Brinkhurst. 1992. Levées de faune benthique des fjords de la côte continentale de la Colombie Britannique en 1988, 1989 et 1990. Can. Data Rep. Hydrogr. Ocean Sci. 114: 37pp.

Ce rapport décrit la somme des données rassemblées au cours de trois levées de faune benthique des fjords de la côte continentale de la Colombie Britannique en 1988, 1989 et 1990. Ces données comprennent les échantillons de faune benthique, les indications de grosseur des particules de sédiment, et de profondeur. Ce travail fait partie du programme d'écologie benthique, Division de l'Ecologie, Institut des Sciences de la Mer, Sidney, C.B.

Mots Clés: faune benthique, fjords

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## INTRODUCTION AND METHODS

The benthic infauna of a series of British Columbia fjords was sampled by the Ocean Ecology Division of Fisheries and Oceans, Canada. This work was part of a program to examine and compare benthic communities in a variety of habitats and environmental conditions. Station locations are listed in Table 1 and illustrated in Figures 1 to 3. Sixteen stations were sampled from January 19 to 25, 1988, 13 were sampled from October 23 to November 10, 1989 and 29 were sampled from July 30 to August 10, 1990. Two replicate grabs were taken for each station, except station 6 in cruise 1 (F16), which had only one. For stations 14 and 20 in cruise 1, replicates A,B represent one sample station; C,D represent another station and E,F represent a third station.

Samples were collected using a  $0.1 \text{ m}^2$  Smith-McIntyre grab. A 100 ml core was collected from each grab prior to extraction of the remaining sample from the grab. The core sample was processed to determine percent gravel, silt and sand content of sediments, using the Wentworth method for sieving sediments (Wentworth 1922). Results of sediment particle size analyses and station depths are included in Table 1.

The sediment from the grab was washed carefully with 0.25 mm filtered seawater through a 1 mm screen. Animals and particles retained were preserved in 10% buffered Rose Bengal stained formalin in plastic jars for transport to the laboratory. Samples were sorted in the laboratory after washing through a 1mm screen, then preserved in 70% ethanol in homeopathic vials with neoprene stoppers. Ten percent of the sorted residues were reexamined by an independent sorter as a quality control. A five percent error in total number of fauna in the grab sample was the maximum permitted, but no control sample exceeded this limit. Sorted samples were sent directly to taxonomic experts for identification and production of a reference collection of identified species. Taxonomic nomenclature follows Austin (1985). Reference collections are stored at the Institute of Ocean Sciences (contact D. Moore). Taxonomic authorities used for identifications are as follows:

Polychaeta: H. Jones, Marine Taxonomic Services, Corvallis, Oregon

Amphipoda: C. Staude, Friday Harbour Marine Laboratory, Friday Harbour, Washington

Mollusca: R. Reid, University of Victoria, B. C.

Varia (crustacea, echinodermata, sipuncula, nemertea, etc.): W. Austin, Khoyatan Marine Laboratory, Cowichan Bay, B.C.

Table 1. British Columbia Fjords Environmental data. F1, F2, F3 indicate studies from 1988, 1989 and 1990 respectively. The last letter in the station name represents the replicate number (A to F), and the remaining numbers and letters represent station names.

STATION	LATITUDE	LONGITUDE	DEPTH	%SILT	%SAND	%GRAVEL
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October 1988

F15AA	127°40.50	51°59.50	241	49.6	50.4	0.0
F15AB	127°40.50	51°59.50	241	43.5	56.0	0.5
F15BA	127°38.50	52°05.00	343	92.5	7.5	0.0
F15BB	127°38.50	52°05.00	343	92.1	7.9	0.0
F15CA	127°33.00	52°09.00	433	91.9	8.1	0.0
F15CB	127°33.00	52°09.00	433	75.9	24.1	0.0
F15DA	127°27.50	52°05.70	363	90.0	9.8	0.2
F15DB	127°27.50	52°05.70	363	91.5	7.8	0.7
F16A	127°21.07	52°14.04	590	90.4	9.6	0.0
F19A	127°01.80	52°38.10	494	97.9	2.1	0.0
F19B	127°01.80	52°38.10	494	97.9	2.1	0.0
F110A	127°46.20	52°15.80	445	97.4	2.6	0.0
F110B	127°46.20	52°15.80	445	96.5	3.5	0.0
F113A	129°07.90	53°10.50	570	77.8	22.2	0.0
F113B	129°07.90	53°10.50	570	66.3	33.7	0.0
F114A	129°12.00	53°34.00	301	22.5	74.4	3.1
F114B	129°12.00	53°34.00	301	29.0	67.9	3.1
F114C	129°09.00	53°39.00	370	26.3	59.6	14.1
F114D	129°09.00	53°39.00	370	26.5	66.0	7.5
F114E	129°02.90	53°43.70	360	94.7	5.3	0.0
F114F	129°02.00	53°43.70	360	92.6	7.4	0.0
F115A	128°50.00	53°48.50	357	99.4	0.6	0.0
F115B	128°50.00	53°48.50	357	98.7	1.3	0.0
F118A	130°10.70	55°04.40	222	99.3	0.7	0.0
F118B	130°10.70	55°04.40	222	99.1	0.9	0.0
F120A	130°02.00	55°25.00	233	97.0	3.0	0.0
F120B	130°02.00	55°25.00	233	97.3	2.7	0.0
F120C	129°59.50	55°19.00	256	98.5	1.5	0.0
F120D	129°59.50	55°19.00	256	98.0	2.0	0.0
F120E	130°07.50	55°10.00	310	96.3	3.7	0.0
F120F	130°07.50	55°10.00	310	96.2	3.8	0.0

October 1989

F215A	128°46.50	53°52.00	318	0.0	11.7	88.2
F215B	128°46.50	53°52.00	318	0.0	1.0	98.9
F216A	130°18.10	54°33.20	378	0.2	64.0	35.7
F216B	130°18.10	54°33.20	349	0.0	35.4	64.5
F217A	130°10.70	54°27.20	325	0.0	1.0	98.9

Abundance per  $0.1m^2$  for each species is given for the three cruises in Appendices A to C respectively.

#### ACKNOWLEDGEMENTS

We thank D. Moore for assistance with collection and sorting of faunal samples, and processing of sediment samples, and the crews of the CSS Vector and John P. Tully, Institute of Ocean Sciences, J. Boyd and D. Goyette, Environment Canada, and D. Bright, University of Victoria, for technical assistance and help during field sampling.

#### REFERENCES

Austin, W. 1985. An annotated checklist of marine invertebrates in the cold temperate northeast Pacific. Khoyatan Marine Laboratory, Cowichan Bay, B.C. 682pp.

Wentworth, C.K. 1922. A scale of grade and class terms for clastic sediments. J. Geol. 30: 377-392.

[PAGINATION INCORRECT ON ORIGINAL]

Table 1. (continued)

STATION	LATITUDE	LONGITUDE	DEPTH	%SILT	%SAND	%GRAVEL
F217B	130°10.70	54°27.20	313	0.0	1.3	98.7
F222A	128°37.80	53°51.00	221	0.0	1.8	98.1
F222B	128°37.80	53°51.00	216	0.6	1.7	97.6
F240A	127°34.20	51°07.70	221	62.6	15.1	22.1
F240B	127°34.20	51°07.70	221	62.6	15.1	22.1
F241A	127°27.80	51°07.80	219	0.0	0.6	99.3
F241B	127°27.80	51°07.80	220	0.0	1.5	98.4
F244A	127°02.90	51°06.60	348	0.0	9.1	90.9
F244B	127°02.90	51°06.60	348	0.0	9.1	90.9
F250A	127°14.90	51°02.90	465	0.0	1.7	98.3
F250B	127°14.90	51°02.90	482	0.0	4.9	95.0
F251A	127°08.10	51°03.10	580	0.0	0.3	99.6
F251B	127°08.10	51°03.10	574	0.0	0.7	99.2
F252A	127°00.80	51°04.30	635	0.3	9.8	89.9
F252B	127°00.80	51°04.30	654	0.0	1.7	98.2
F253A	126°55.10	51°04.40	588	0.0	0.6	99.4
F253B	126°55.10	51°04.40	580	0.0	0.9	99.0
F254A	126°45.30	51°05.80	321	0.0	4.9	95.1
F254B	126°45.30	51°05.80	328	0.0	9.9	90.1
F255A	126°41.30	51°08.30	388	0.0	9.5	90.5
F255B	126°41.30	51°08.30	386	0.0	10.0	89.9

July 1990

F3B01A	126°10.90	50°50.50	134	99.4	0.6	0.0
F3B01B	126°10.90	50°50.50	137	99.6	0.4	0.0
F3BU1A	125°05.20	50°24.30	660	98.5	1.5	0.0
F3BU1B	125°05.20	50°24.30	660	99.2	0.8	0.0
F3BU2A	125°03.70	50°29.70	650	99.0	1.0	0.0
F3BU2B	125°03.70	50°29.70	650	99.0	1.0	0.0
F3BU3A	124°54.50	50°34.10	645	95.2	4.8	0.0
F3BU3B	124°54.50	50°34.10	649	70.6	29.4	0.0
F3BU5A	123°54.60	50°45.40	470	91.4	8.6	0.0
F3BU5B	123°54.60	50°45.40	470	95.6	4.4	0.0
F3BU6A	123°53.00	50°50.20	340	99.7	0.3	0.0
F3BU6B	123°53.00	50°50.20	340	99.7	0.3	0.0
F3JE1A	123°54.10	49°51.30	678	97.2	2.8	0.0
F3JE1B	123°54.10	49°51.30	650	64.0	36.0	0.0
F3JE2A	123°56.40	49°54.60	660	96.9	3.1	0.0
F3JE2B	123°56.40	49°54.60	660	96.0	4.0	0.0
F3JE3A	123°56.40	50°00.60	560	94.3	5.7	0.0
F3JE3B	123°56.40	50°00.60	560	94.6	5.4	0.0
F3JE4A	123°48.70	50°03.70	537	97.4	2.6	0.0
F3JE4B	123°48.70	50°03.70	537	96.8	3.2	0.0
F3JE5A	123°49.30	50°07.70	366	98.0	2.0	0.0
F3JE5B	123°49.30	50°07.70	366	98.2	1.8	0.0
F3JE6A	123°54.30	50°10.10	329	97.0	3.0	0.0
F3JE6B	123°54.30	50°10.10	329	97.6	2.4	0.0
F3KI1A	126°32.50	50°54.70	480	99.3	0.7	0.0

Table 1. (continued)

STATION	LATITUDE	LONGITUDE	DEPTH	%SILT	%SAND	%GRAVEL
F3KI1B	126°32.50	50°54.70	480	98.4	1.6	0.0
F3KI2A	126°24.20	50°55.50	394	99.2	0.8	0.0
F3KI2B	126°24.20	50°55.50	394	99.7	0.3	0.0
F3KI3A	126°17.00	50°55.20	266	89.4	10.6	0.0
F3KI3B	126°17.00	50°55.20	266	95.7	4.3	0.0
F3KI4A	126°31.30	51°00.30	325	96.2	3.8	0.0
F3KI4B	126°31.30	51°00.30	316	97.3	2.7	0.0
F3KN2A	125°47.20	50°41.70	331	99.4	0.6	0.0
F3KN2B	125°47.20	50°41.70	331	99.4	0.6	0.0
F3KN3A	125°39.60	50°45.70	530	99.7	0.3	0.0
F3KN3B	125°39.60	50°45.70	530	99.7	0.3	0.0
F3KN4A	125°39.80	50°51.20	514	71.0	29.0	0.0
F3KN4B	125°39.80	50°51.20	514	71.0	29.0	0.0
F3KN5A	125°32.10	50°57.40	372	83.3	16.7	0.0
F3KN5B	125°32.10	50°57.40	369	35.7	64.3	0.0
F3KN6A	125°34.00	50°02.50	190	98.8	1.2	0.0
F3KN6B	125°34.00	50°02.50	190	99.9	0.1	0.0
F3LO1A	125°33.60	50°31.20	202	99.4	0.6	0.0
F3LO1B	125°33.60	50°31.20	194	99.3	0.7	0.0
F3LO2A	125°32.60	50°33.40	290	99.3	0.7	0.0
F3LO2B	125°32.60	50°33.40	246	99.4	0.6	0.0
F3LO3A	125°32.50	50°36.30	256	99.4	0.6	0.0
F3LO3B	125°32.50	50°36.30	267	99.2	0.8	0.0
F3LO4A	125°27.60	50°41.20	185	92.5	7.5	0.0
F3LO4B	125°27.60	50°41.20	185	90.4	9.6	0.0
F3TH2A	126°05.60	50°46.40	185	99.6	0.4	0.0
F3TH2B	126°05.60	50°46.40	178	62.8	29.2	8.0
F3TO1A	124°43.50	50°20.30	506	98.8	1.2	0.0
F3TO1B	124°43.50	50°20.30	512	99.6	0.4	0.0
F3TO2A	124°37.00	50°24.50	478	99.7	0.3	0.0
F3TO2B	124°37.00	50°24.50	478	99.5	0.5	0.0
F3TO3A	124°26.70	50°26.80	290	98.2	1.8	0.0
F3TO3B	124°26.70	50°26.80	296	99.1	0.9	0.0

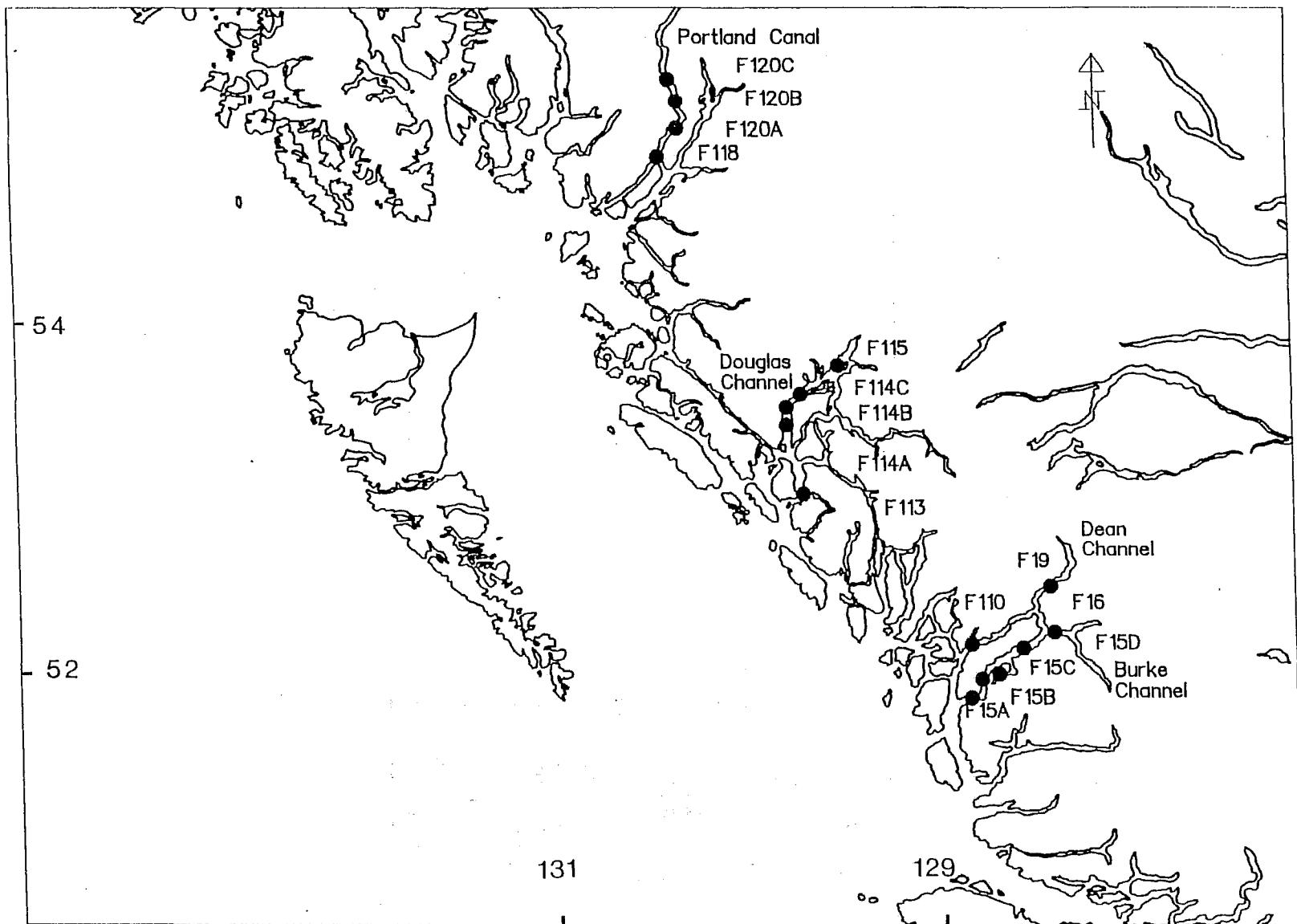


Figure 1. Station locations for cruise 1, October 1988. Station locations are listed in Table 1.

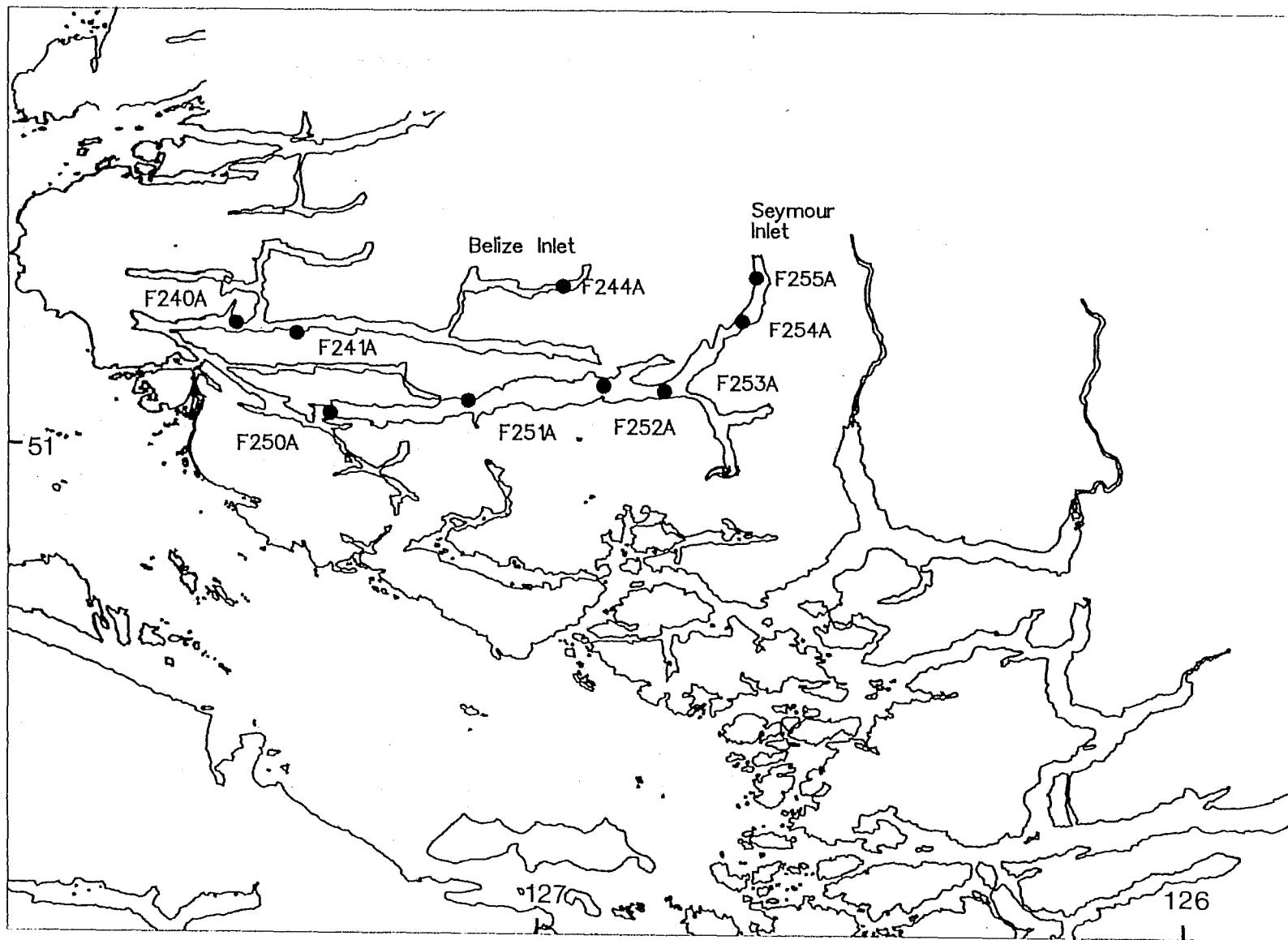


Figure 2. Southernmost station locations for cruise 2, October 1989. Station locations are listed in Table 1.

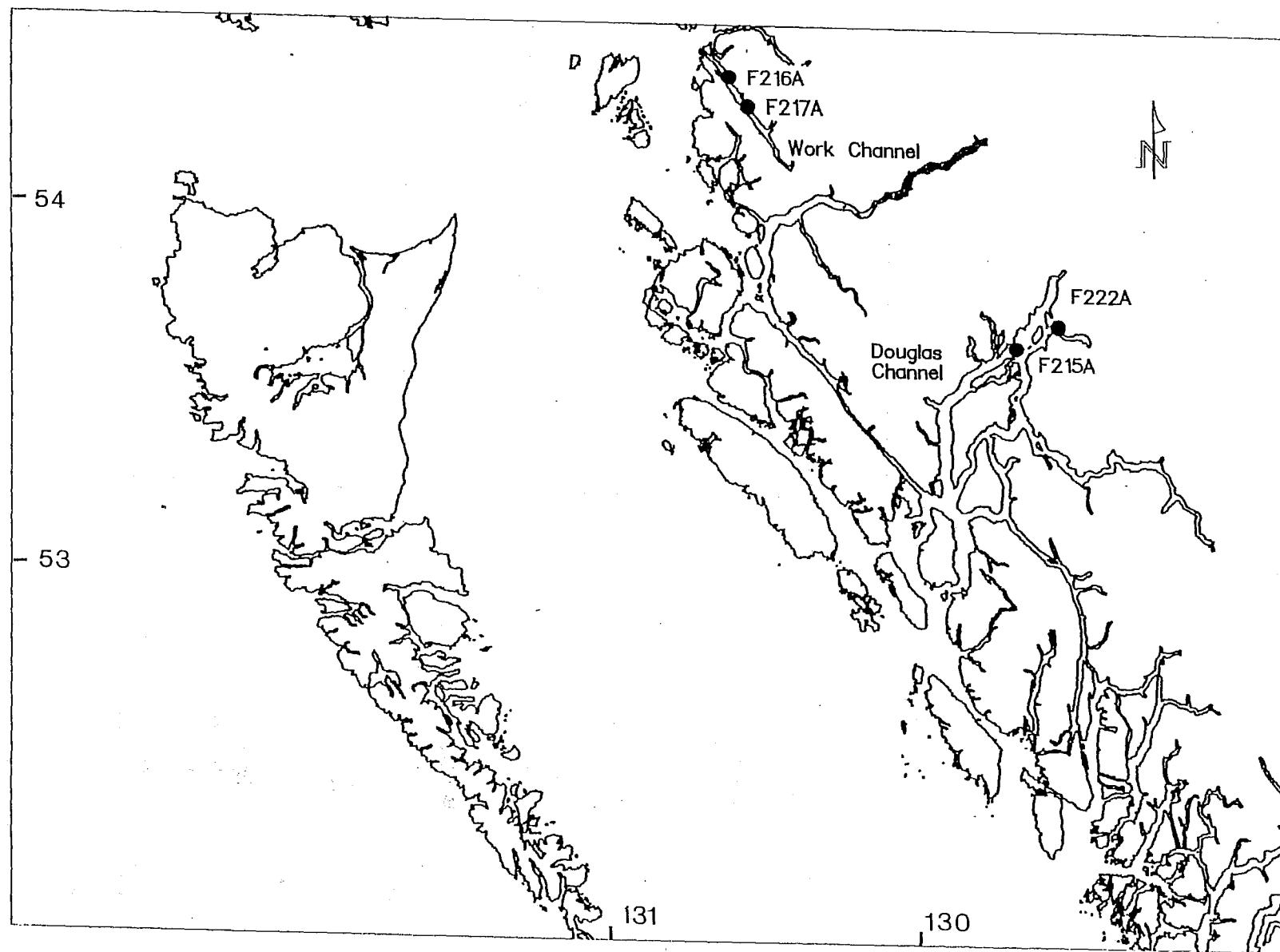


Figure 3. Northernmost station locations for cruise 2, October 1989.

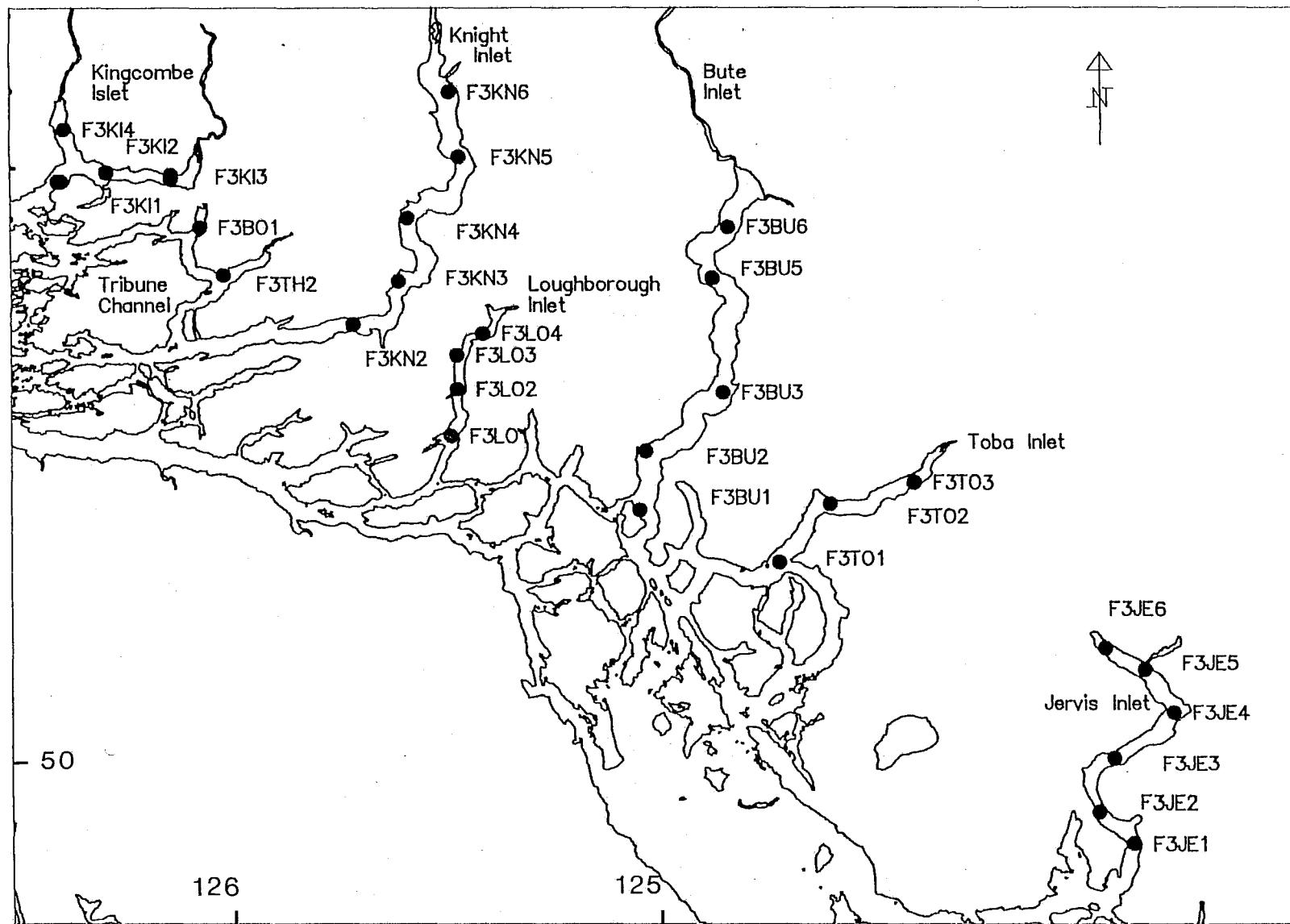


Figure 4. Station locations for cruise 3, July 1990. Station locations are listed in Table 1.

**APPENDICES**

Station names for the following abundance tables have been shortened for space consideration. Nomenclature is as described for Table 1, except that the "F" at the beginning of each name has been eliminated.

Appendix A: Fjord Survey: October 1988: Numbers per 0.1m<sup>2</sup>

TAXON	15AA	15AB	15BA	15BB	15CA	15CB	15DA	15DB	16A	19A	19B	110A	110B	113A	113B	114A	114B	1143	1144	1145	1146	115A	115B	116A	116B	120A	120B	1203	1204	1205	1206
<b>AMPHIPODA</b>																															
<i>Ampelisca agassizi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	1	3	0	0	0	1	0	0	0	0	0	0	
<i>Ampelisca brevisimilata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	
<i>Ampelisca unsocia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	
<i>Ampelisca pugetica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Bathymedon nepos</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Bathymedon pumilis</i>	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Caprella irregularis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
<i>Caprella laevifuscula</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
<i>Haplooopis tubicola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
<i>Harpiniopsis fulgens</i>	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Heterophoxus oculatus</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	
<i>Ischyrocerus angulipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
<i>Monoculodes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
<i>Nicippe tumida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Oedicerotidae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Paraphoxus oculatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
<i>Parathemisto</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4	
<i>Pardaliscella symmetrica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
<i>Photis brevipes</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
<i>Photis conchicola</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	2	0	
<i>Tritella</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Urothoe denticulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	1	4	0	0	0	10	9	0	0	0	0	0	
<b>CUMACEA</b>																															
<i>Cumacea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
<i>Diastylis pellucida</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Leucon nasica</i>	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	0	
<i>Diastylis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Eudorella emarginata</i>	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	2	0	0	3	3	1	0	2	0	0	0	0	0	0	0	
<i>Diastylis spinulosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Leptostyliis villosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	
<b>DECAPODA</b>																															
<i>Callianassa</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>TANAIDACEA</b>																															
<i>Gnathia trilobata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	

Appendix A: Fjord Survey: October 1986: Numbers per 0.1m<sup>2</sup>

TAXON	15AA	15AB	15BA	15BB	15CA	15CB	15DA	15DB	16A	19A	19B	110A	110B	113A	113B	114A	114B	1143	1144	1145	1146	115A	115B	118A	118B	120A	120B	1203	1204	1205	1206	
<i>Araphura brevimanus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0		
OSTRACODA																																
<i>Scleroconcha trituberculata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0		
ECHINODERMATA																																
<i>Ctenodiscus crispatus</i>	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	0	0		
<i>Asterioidea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	1	0	0	
<i>Briaster latifrons</i>	1	0	0	0	3	2	0	0	0	2	2	3	1	2	7	0	1	2	1	2	1	4	4	4	1	2	0	4	2	2	2	
<i>Molpadiia intermedia</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	1	1	0	0	1	0	4	0	1	1	1	0	1	0	
<i>Chiridotea albatrossi</i>	3	6	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	2	2	1	1	0	0	0	0	1	1	1	0	1	0	
<i>Amphiuridae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	1	0	
<i>Ophioderma leptocentra</i>	0	0	0	0	0	0	0	0	0	0	33	0	2	1	0	0	4	3	0	3	3	0	1	0	3	3	0	0	0	0	0	
<i>Ophiura</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	
<i>Ophiacantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Amphioplus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
<i>Ophiura sarai</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BIVALVIA																																
<i>Adontorhina cyclia</i>	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Adontorhina ferruginea</i>	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Axonopisida serricata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	6	0	1	1	0	1	0	0	3	0	0	0	0	0	0	
<i>Cardiomya pectinata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	4	1	0	6	0	0	0	6	1	0	2	1	0	0	1	1
<i>Cuspidaria apodema</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
<i>Cyclocardia ventricosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Delectopecten vancouverensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2	0	0	0	0	0	0	0	
<i>Diploponta orbella</i>	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	
<i>Lyonsia californica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Macoma noesta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
<i>Macoma balthica</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Nodilulus difficilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	9	1	6	0	1	0	0	3	0	0	0	0	0	1	0
<i>Mya arenaria</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Naeromya rugifera</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Mysella tumida</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Nucula tenuis</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
<i>Nuculanana tenuisulcata</i>	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	2	0	0		
<i>Psephidia lordi</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
<i>Thyasira gouldi</i>	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0	2	0	2	0	0	0	0	0	0	0	0	0	0	1

Appendix A: Fjord Survey: October 1988: Numbers per 0.1m<sup>2</sup>

TAXON	15AA	15AB	15BA	15BB	15CA	15CB	15DA	15DB	16A	19A	19B	110A	110B	113A	113B	114A	114B	1143	1144	1145	1146	115A	115B	118A	118B	120A	120B	1203	1204	1205	1206		
<i>Yoldia martyria</i>	0	2	0	0	0	0	0	1	0	0	0	0	0	1	0	1	8	0	3	0	0	0	0	1	0	1	1	2	1	0			
GASTROPODA																																	
<i>Amphissa bicolor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Buccinum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0		
<i>Cyllichna attona</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	3	2	0	0	1	0	1	0	0	0		
<i>Leptogyra alaskana</i>	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	2	0	0	1	0	1	0	0	0	
<i>Natica clausa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Philine polaris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Plicifusus kroyeri</i>	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
<i>Trichotropis borealis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	
<i>Prochaetoderma yongei</i>	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Spathoderma denchi</i>	1	1	0	0	1	0	0	0	0	0	0	0	0	0	1	0	3	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	
APLACOPHORA																																	
<i>Chaetoderma attenuatum</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	1	0	1	0	1	
<i>Chaetoderma whitlachi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Chaetoderma</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cadulus tolmei</i>	2	1	0	1	1	1	0	0	0	0	1	0	1	4	8	6	3	0	1	1	0	1	0	3	0	3	0	0	1	1	0	0	
SCAPHOPODA																																	
<i>Rhabdus rectius</i>	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Dentalium pretiosum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	2	1	0	0	0	0	0	1	2	0	0	
POLYCHAETA																																	
<i>Aglaophanus malmgreni</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	5	1	2	0	1	0	0	0	0	0	0	0	0	0	0	
<i>Ampharete acutifrons</i>	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Ampharete finmarchica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Ampharetidae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
<i>Amphitrite</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
<i>Ancistrosyllis groenlandicus</i>	0	1	0	0	2	0	0	0	0	1	0	0	1	0	1	0	1	2	4	2	1	0	0	0	0	1	1	0	0	0	0	0	
<i>Anobothrus gracilis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	1	9	16	0	4	1	1	0	0	3	1	0	0	0	0	3	1	0	0	
<i>Acesta lopezi</i>	3	5	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	
<i>Acesta neosuecica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Allia quadrilobata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Articidea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Asychis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Autolytus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
<i>Brada villosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	

Appendix A: Fjord Survey: October 1988; Numbers per 0.1m<sup>2</sup>

TAXON	15AA	15AB	15BA	15BB	15CA	15CB	15DA	15DB	16A'	19A	19B	110A	110B	113A	113B	114A	114B	1143	1144	1145	1146	115A	115B	116A	116B	120A	120B	1203	1204	1205	1206		
<i>Chone ecaudata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Cirrophorus branchiatus</i>	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0		
<i>Clymenura columbiana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0		
<i>Cossura longocirrata</i>	4	0	0	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Cossura modica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0		
<i>Decamastus gracilis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	
<i>Euchone incolor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Euclymene</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Euclymene zonalis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Maldanidae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Eusyllis assimilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	1	0	0	0	0	9	0	0	0	0	1	0
<i>Exogone verugera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	
<i>Galathowenia oculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1	0	0	0	0	0	
<i>Gattyana cirrosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	0	0	0	0	0	0	28	24	0	0	0	0	0	7	2
<i>Glycera capitata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Glycinidea armigera</i>	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	
<i>Glyphanostomum pallescens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
<i>Goniada annulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	1	1	0	2	0	0	0	0	1	0	
<i>Podarkeopsis brevipalpa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0
<i>Cyptis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Harmothoe lunulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Harmothoe</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<i>Jasmineira pacifica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Kefersteinia cinctata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Lepidonotus squamatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Levinmenia gracilis</i>	5	1	0	0	2	10	1	0	0	0	0	0	2	0	0	2	7	2	0	0	1	0	0	3	1	1	0	0	0	2	0	1	0
<i>Lumbrineris bicirrata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Lumbrineris cruzensis</i>	0	0	0	0	1	2	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Lumbrineris lagunae</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Lumbrineris luti</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lumbrineris</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3	0	8	10	0	0	0	0	14	0
<i>Lumbrineris zonata</i>	8	3	1	0	0	0	0	0	0	0	3	2	0	5	0	12	6	5	12	6	0	6	0	0	5	6	3	0	0	0	0	0	0
<i>Maldane glebifex</i>	0	0	0	0	0	0	0	0	0	1	1	2	1	0	0	1	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	6	
<i>Mediomastus californiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163	119	0	0	0	161	68
<i>Mediomastus</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	4	0	0	0	0	0	0	1	0	0	0	0	0	0

Appendix A: Fjord Survey: October 1988: Numbers per 0.1m<sup>2</sup>

TAXON	15AA	15AB	15BA	15BB	15CA	15CB	15DA	15DB	16A	19A	19B	110A	110B	113A	113B	114A	114B	1143	1144	1145	1146	115A	115B	118A	118B	120A	120B	1203	1204	1205	1206	
<i>Melodorvillea minuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Melinna cristata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
<i>Mesochætopterus taylori</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hephtyidae	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hephtys cornuta franciscanum</i>	4	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	6	1	1	0	3	0	2	7	1	3	0	0	0	2	0
<i>Hephtys punctata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	
<i>Hephtys</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Odontosyllis phosphorea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
<i>Nothria iridescent</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0
<i>Duenia fusiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	1	2	0	0	0	0	0	1	0	0	0	0	0	0
<i>Paraninosa sinpta</i>	0	0	1	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	2	0	0	2	3	2	2	3	0	1	2	0	0
<i>Pectinaria moorei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Pherusa negligens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	4	0	0	0	0	4	1	0
<i>Pholoe minuta</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	0	2	2	1	0	0	0	3	1	8	1	0	0
<i>Pista brevibranchiata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Pista cristata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	3	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0
<i>Pista pacifica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pista</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polycirrus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polydora socialis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polynoidae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0
<i>Potamilla intermedia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Praxillella gracilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Praxillella pratermissa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prionospio lighti</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
<i>Prionospio steenstrupi</i>	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	2	0	0	2	0	0	4	4	0	0	0	0	0	0	0	0	0
<i>Proctea graffi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	5	3	0	0	0	0	0	0	0	0
<i>Rhodine bitorquata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
<i>Sabellidae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
<i>Scioneilla japonica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scolelepis squamata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<i>Splionidae</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spiophanes berkeleyorum</i>	1	1	0	0	0	0	0	0	0	13	13	0	1	2	2	4	1	2	2	0	0	0	145	22	0	0	0	0	0	0	0	0
<i>Spiophanes kroyeri</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sternaspis scutata</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	1	1	1	0	0	0	0	0	0

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C7

Appendix A: Fjord Survey: October 1988: Numbers per 0.1m<sup>2</sup>

TAKON	15AA	15AB	15BA	15BB	15CA	15CB	15DA	15DB	16A	19A	19B	110A	110B	113A	113B	114A	114B	1143	1144	1145	1146	115A	115B	118A	118B	120A	120B	1203	1204	1205	1206			
Syllidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	1	0			
<i>Syllis heterochaeta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	1	0		
<i>Syllis hyalina</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0		
<i>Terebellides californicus</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8	4	0	0	0	0	0	3	0	
<i>Tharyx multifilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	8	2	1	0	0	0	0	1	4	1	0	0	0	0	0	1	0	
<i>Thelepus setosus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	
CHELICERATA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Halacaridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
POCOPHORIDA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NEMERTEA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Nicrua	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Paleonemertea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Heteronemertea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Nemertea	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
Cerebratulus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	0	0	
NEMERTINEA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
Nemertinea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
SIPUNCULIDA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	0	0	0	0	1	0
Sipunculida	2	1	0	0	0	0	0	0	0	8	36	1	3	0	1	284	72	29	59	42	34	0	0	171	129	0	0	0	1	38	12			
CHAETOGNATHA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	
HYDROZOA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Stegopoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
ANTHOZOA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Virgularia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Macrocyllindrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	

Appendix B: Fjord Survey: October 1969 - Numbers per 0.1m<sup>2</sup>

TAXON	215A	215B	216A	216B	217A	217B	222A	222B	240A	241A	241B	243A	243B	244A	244B	250A	250B	251A	251B	252A	252B	253A	253B	254A	254B	255A	255B
<b>AMPHIPODA</b>																											
<i>Cyphocaris challengerii</i>	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Harpinopsis fulgens</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	1	
<i>Heterophoxus oculatus</i>	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<i>Monoculodes recandesco</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
<i>Paraphoxus oculatus</i>	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Parathemisto pacifica</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Stenothoidae unident.</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Urothoe denticulata</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>CRUSTACEA</b>																											
<i>Eudorella pacifica</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>DECAPODA</b>																											
<i>Pasaphaea pacifica</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>OSTRACODA</b>																											
<i>Alacia alata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	
<i>Eusarsiella pseudospinosa</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>MYSIDACEA</b>																											
<i>Neomysis rayi</i>	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>PYCHOGONIDA</b>																											
<i>Nymphon</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Nymphon grossipes</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>EUPHAUSIACEA</b>																											
<i>Euphausia pacifica</i>	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Nematobrachion flexipes</i>	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ECHINODERMATA</b>																											
<i>Holopadia intermedia</i>	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Chiridota albatrossi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	
<i>Brisaster latifrons</i>	7	2	1	0	1	0	1	2	1	0	0	0	0	0	0	4	4	1	0	0	0	0	2	3	1	0	
<i>Ophiura sarsi</i>	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Ophiura leutkeni</i>	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Ophiura leptocentria</i>	3	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Ophiura</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
<i>Amphioplus strongyloplax</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>BIVALVIA</b>																											
<i>Adontorhina cyclia</i>	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	

Appendix B: Fjord Survey: October 1989 - Numbers per 0.1m<sup>2</sup>

TAXON	215A	215B	216A	216B	217A	217B	222A	222B	240A	241A	241B	243A	243B	244A	244B	250A	250B	251A	251B	252A	252B	253A	253B	254A	254B	255A	255B
<i>Adontorhina ferruginosa</i>	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	
<i>Axinopsida serricata</i>	2	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
<i>Cardiomya pectinata</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
<i>Delectopecten vitreus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Histella arctica</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Macoma carolinensis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Macoma elatima</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
<i>Modiolus rectus</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Nuculana fossa</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Poromya c.f. trostii</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Tellina carpenteri</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Thyasira gouldi</i>	5	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	1	0	0	5	1	3	0	0
<i>Yoldia martyria</i>	2	2	0	1	0	0	0	0	0	4	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	
GASTROPODA																											
<i>Bittium tumidum</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
<i>Cyllichna alba</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
<i>Cyllichna attonea</i>	0	1	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Margarites pupillus</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
POLYPLOCOPHORA																											
<i>Chaetopleura gemma</i>	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SCAPHOPODA																											
<i>Cadulus aberrans</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Cadulus tomielii</i>	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Dentalium pretiosum</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
APLACOPHORA																											
<i>Chaetoderma attenuatum</i>	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Chaetoderma robustum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CAUDOFALVATEATA																											
<i>Crystallophrisson</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	
POLYCHAETA																											
<i>Amphicteis scaphobranchiata</i>	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Ampharete finmarkica</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ampharetidae																											
<i>Amphicteis moorei</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
<i>Ancistrosyllis groenlandica</i>	3	0	0	6	0	1	0	1	1	0	0	0	0	0	0	0	1	0	1	4	0	4	0	0	1	1	

Appendix B: Fjord Survey: October 1989 - Numbers per 0.1m<sup>2</sup>

TAXON	215A	215B	216A	216B	217A	217B	222A	222B	240A	241A	241B	243A	243B	244A	244B	250A	250B	251A	251B	252A	252B	253A	253B	254A	254B	255A	255B
<i>Anobothrus gracilis</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Aricidea catherinae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	6	0	0	0	0	0	0	0	0	0	8	
<i>Aricidea lopezi</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
<i>Aricidea neosuecica</i>	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	4	1	
<i>Aricidea quadrilobata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	
<i>Aricidea</i>	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Artacamella hancocki</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Asclerocheilus beringianus</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Baramotilla americana</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Brada sachelina</i>	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Capitellidae</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Chaetozone</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	3	
<i>Chaetozone</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Chaetozone spinosa</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	
<i>Cossura longocirrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
<i>Cossura ?modica</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	3	1	
<i>Decamastus gracilis</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Dorvillea rudolphi</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
<i>Eteone</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
<i>Eulalia viridis</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Exogone lourei</i>	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Flabelligera affinis</i>	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
<i>Galathowenia oculata</i>	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Gattyana</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Glycera capitata</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
<i>Glycinde armigera</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
<i>Goniada annulata</i>	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Gyptis brevipalpa</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
<i>Harmothoe lunulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
<i>Heteromastus filobranchus</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Idanthyrsus ornamentatus</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Lepidonotus squamatus</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Levinseria gracilis</i>	0	2	5	2	1	0	0	0	2	0	0	0	0	0	0	8	8	4	3	0	0	2	4	0	1	6	5
<i>Lumbrineris tuti</i>	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	2	0	0	
<i>Lumbrineris</i>	7	7	7	6	0	0	0	2	11	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	

Appendix B: Fjord Survey, October 1989 - Numbers per 0.1m<sup>2</sup>

TAXON	215A	215B	216A	216B	217A	217B	222A	222B	240A	241A	241B	243A	243B	244A	244B	250A	250B	251A	251B	252A	252B	253A	253B	254A	254B	255A	255B
<i>Maldane glebifex</i>	0	0	0	0	1	0	0	0	68	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
<i>Maldanidae</i>	0	0	2	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Mediomastus californiensis</i>	0	0	29	10	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Melitina elizabethae</i>	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	0	
<i>Mesochaetopterus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Nephtys cornuta cornuta</i>	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	13	1	1	0	0	0	0	0	
<i>Nephtys ferruginea</i>	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	19	26	
<i>Nephtys punctata</i>	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Ninoc gemma</i>	0	0	0	0	0	0	0	1	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Odontosyllis phosphorea</i>	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Oxenia fusiformis</i>	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Onuphis</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Onuphis iridescent</i>	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Paraninoe simila</i>	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pettibonia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
<i>Pholoe minuta</i>	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	
<i>Pholoides aspera</i>	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Phyllochaetopterus clapparedii</i>	0	0	1	1	0	0	0	0	0	0	1	1	0	18	19	10	0	0	4	0	0	0	0	1	3	0	
<i>Polynoides</i>	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Polycirrus sp. complex</i>	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Praxillella gracilis</i>	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Prionospio steenstrupi</i>	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Protodorvillea gracilis</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	
<i>Rhodine bitorquata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Sabellidae</i>	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	
<i>Scionella estevanica</i>	3	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Sphaerosyllis hystrix</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Spiophanes kroyeri</i>	0	0	4	4	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
<i>Sternaspis scutata</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
<i>Syllidae</i>	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Syllis elongata</i>	0	0	2	5	0	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	
<i>Syllis heterochaeta</i>	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Terebellidae</i>	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Terebellides stroemi</i>	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Tharyx multifilis</i>	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	

Appendix B: Fjord Survey: October 1989 - Numbers per 0.1m<sup>2</sup>

TAXON	215A	215B	216A	216B	217A	217B	222A	222B	240A	241A	241B	243A	243B	244A	244B	250A	250B	251A	251B	252A	252B	253A	253B	254A	254B	255A	255B
<i>Travicia pupa</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Travicia</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NEMERTEA																											
<i>Tubulanus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
<i>Cerebratulus</i>	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Heterinemerteans	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NEMERTINEA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
SIPUNCULIDA																											
<i>Sipunculida</i> sp.	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Thysanocardia nigra</i>	7	1	30	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Golfingia vulgaris</i>	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDROZOA																											
<i>Abietinaria</i>	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Sertularia</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANTHOZOA																											
<i>Pachycerianthus fimbriatus</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Virgularia cystiferaum</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Appendix C: Fjord Survey: October 1990; Numbers per 0.1m<sup>2</sup>

TAXON	3B01A	3B01B	3B01A	3B01B	3B02A	3B02B	3B03A	3B03B	3B0USA	3B0SB	3B06A	3B06B	3JE1A	3JE1B	3JE2A	3JE2B	3JE3A	3JE3B	3JE4A	3JE4B	3JE5A	3JE5B	3JE6A	3JE6B
<b>AMPHIPODA</b>																								
Bathymedon pumilus																								
Caprella striata	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Calliopius sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyphocaris challengerii	0	0	0	0	0	3	0	0	0	2	0	0	2	0	0	0	0	0	0	1	0	2	0	0
Harpiniopsis fulgens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heterophoxus oculatus	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0
Hyperia ?medusarum	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Lysianassidae	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Monoculodes zernovi	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Páraphoxus oculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parathemisto pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Photis ?lacia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Primno macropus	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhachotropis clemens	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Schisturella cocula	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scina borealis	0	0	0	0	1	0	0	2	1	3	0	1	0	1	0	0	0	2	0	0	0	1	1	0
Mytilidae	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CUMACEA																								
Eudorella pacifica	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eudorellopsis integrata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leucon nasicus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diastylis cf. spinulosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DECAPODA																								
Pinnixa sp.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapod larvae	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paguroidea juv.	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pasiphaea pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spirontocaris holmesi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spirontocaris sp.	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TAHAIIDACEA																								
Araphura brevimanus	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Appendix C: Fjord Survey: October 1990: Numbers per 0.1m<sup>2</sup>

TAXON	3B01A	3B01B	3B01A	3B01B	3B02A	3B02B	3B03A	3B03B	3B05A	3B05B	3B06A	3B06B	3JE1A	3JE1B	3JE2A	3JE2B	3JE3A	3JE3B	3JE4A	3JE4B	3JE5A	3JE5B	3JE6A	3JE6B
<b>ANPHIPODA</b>																								
Bathymedon pumilus																								
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Calliopius sp.																								
Cyphocaris challengerii																								
Harpiniopsis fulgens																								
Heterophoxus oculatus																								
Hyperia ?medusarum																								
Lysianassidae																								
Monoculodes zernovi																								
Paraphoxus oculatus																								
Parathemisto pacifica																								
Photis ?lacim																								
Primno macrops																								
Rhachotropis clemens																								
Schisturella cocula																								
Scina borealis																								
Mysidacea																								
<b>CUMACEA</b>																								
Eudorella pacifica																								
Eudorellopsis integra																								
Leucon nasica																								
Diastylis cf. spinulosa																								
<b>DECAPODA</b>																								
Pinnixa sp.																								
Decapod larvae																								
Paguroidea juv.																								
Pasiphaea pacifica																								
Spirontocaris holmesi																								
Spirontocaris sp.																								
<b>TAHIDACEA</b>																								
Araphura brevimanus																								

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Appendix C: (continued) Fjord Survey: October 1990: Numbers per 0.1m<sup>2</sup>

TAXON	3B01A	3B01B	3B01C	3B01D	3B01E	3B01F	3B02A	3B02B	3B03A	3B03B	3B03C	3B03D	3B03E	3B03F	3B03G	3B03H	3B03I	3B03J	3B03K	3B03L	3B03M	3B03N	3B03O	3B03P	3B03Q	3B03R	3B03S	3B03T	3B03U	3B03V	3B03W	3B03X	3B03Y	3B03Z	3B04A	3B04B	3B04C	3B04D	3B04E	3B04F	3B04G	3B04H	3B04I	3B04J	3B04K	3B04L	3B04M	3B04N	3B04O	3B04P	3B04Q	3B04R	3B04S	3B04T	3B04U	3B04V	3B04W	3B04X	3B04Y	3B04Z	3B05A	3B05B	3B05C	3B05D	3B05E	3B05F	3B05G	3B05H	3B05I	3B05J	3B05K	3B05L	3B05M	3B05N	3B05O	3B05P	3B05Q	3B05R	3B05S	3B05T	3B05U	3B05V	3B05W	3B05X	3B05Y	3B05Z	3B06A	3B06B	3B06C	3B06D	3B06E	3B06F	3B06G	3B06H	3B06I	3B06J	3B06K	3B06L	3B06M	3B06N	3B06O	3B06P	3B06Q	3B06R	3B06S	3B06T	3B06U	3B06V	3B06W	3B06X	3B06Y	3B06Z	3B07A	3B07B	3B07C	3B07D	3B07E	3B07F	3B07G	3B07H	3B07I	3B07J	3B07K	3B07L	3B07M	3B07N	3B07O	3B07P	3B07Q	3B07R	3B07S	3B07T	3B07U	3B07V	3B07W	3B07X	3B07Y	3B07Z	3B08A	3B08B	3B08C	3B08D	3B08E	3B08F	3B08G	3B08H	3B08I	3B08J	3B08K	3B08L	3B08M	3B08N	3B08O	3B08P	3B08Q	3B08R	3B08S	3B08T	3B08U	3B08V	3B08W	3B08X	3B08Y	3B08Z	3B09A	3B09B	3B09C	3B09D	3B09E	3B09F	3B09G	3B09H	3B09I	3B09J	3B09K	3B09L	3B09M	3B09N	3B09O	3B09P	3B09Q	3B09R	3B09S	3B09T	3B09U	3B09V	3B09W	3B09X	3B09Y	3B09Z	3B10A	3B10B	3B10C	3B10D	3B10E	3B10F	3B10G	3B10H	3B10I	3B10J	3B10K	3B10L	3B10M	3B10N	3B10O	3B10P	3B10Q	3B10R	3B10S	3B10T	3B10U	3B10V	3B10W	3B10X	3B10Y	3B10Z	3B11A	3B11B	3B11C	3B11D	3B11E	3B11F	3B11G	3B11H	3B11I	3B11J	3B11K	3B11L	3B11M	3B11N	3B11O	3B11P	3B11Q	3B11R	3B11S	3B11T	3B11U	3B11V	3B11W	3B11X	3B11Y	3B11Z	3B12A	3B12B	3B12C	3B12D	3B12E	3B12F	3B12G	3B12H	3B12I	3B12J	3B12K	3B12L	3B12M	3B12N	3B12O	3B12P	3B12Q	3B12R	3B12S	3B12T	3B12U	3B12V	3B12W	3B12X	3B12Y	3B12Z	3B13A	3B13B	3B13C	3B13D	3B13E	3B13F	3B13G	3B13H	3B13I	3B13J	3B13K	3B13L	3B13M	3B13N	3B13O	3B13P	3B13Q	3B13R	3B13S	3B13T	3B13U	3B13V	3B13W	3B13X	3B13Y	3B13Z	3B14A	3B14B	3B14C	3B14D	3B14E	3B14F	3B14G	3B14H	3B14I	3B14J	3B14K	3B14L	3B14M	3B14N	3B14O	3B14P	3B14Q	3B14R	3B14S	3B14T	3B14U	3B14V	3B14W	3B14X	3B14Y	3B14Z	3B15A	3B15B	3B15C	3B15D	3B15E	3B15F	3B15G	3B15H	3B15I	3B15J	3B15K	3B15L	3B15M	3B15N	3B15O	3B15P	3B15Q	3B15R	3B15S	3B15T	3B15U	3B15V	3B15W	3B15X	3B15Y	3B15Z	3B16A	3B16B	3B16C	3B16D	3B16E	3B16F	3B16G	3B16H	3B16I	3B16J	3B16K	3B16L	3B16M	3B16N	3B16O	3B16P	3B16Q	3B16R	3B16S	3B16T	3B16U	3B16V	3B16W	3B16X	3B16Y	3B16Z	3B17A	3B17B	3B17C	3B17D	3B17E	3B17F	3B17G	3B17H	3B17I	3B17J	3B17K	3B17L	3B17M	3B17N	3B17O	3B17P	3B17Q	3B17R	3B17S	3B17T	3B17U	3B17V	3B17W	3B17X	3B17Y	3B17Z	3B18A	3B18B	3B18C	3B18D	3B18E	3B18F	3B18G	3B18H	3B18I	3B18J	3B18K	3B18L	3B18M	3B18N	3B18O	3B18P	3B18Q	3B18R	3B18S	3B18T	3B18U	3B18V	3B18W	3B18X	3B18Y	3B18Z	3B19A	3B19B	3B19C	3B19D	3B19E	3B19F	3B19G	3B19H	3B19I	3B19J	3B19K	3B19L	3B19M	3B19N	3B19O	3B19P	3B19Q	3B19R	3B19S	3B19T	3B19U	3B19V	3B19W	3B19X	3B19Y	3B19Z	3B20A	3B20B	3B20C	3B20D	3B20E	3B20F	3B20G	3B20H	3B20I	3B20J	3B20K	3B20L	3B20M	3B20N	3B20O	3B20P	3B20Q	3B20R	3B20S	3B20T	3B20U	3B20V	3B20W	3B20X	3B20Y	3B20Z	3B21A	3B21B	3B21C	3B21D	3B21E	3B21F	3B21G	3B21H	3B21I	3B21J	3B21K	3B21L	3B21M	3B21N	3B21O	3B21P	3B21Q	3B21R	3B21S	3B21T	3B21U	3B21V	3B21W	3B21X	3B21Y	3B21Z	3B22A	3B22B	3B22C	3B22D	3B22E	3B22F	3B22G	3B22H	3B22I	3B22J	3B22K	3B22L	3B22M	3B22N	3B22O	3B22P	3B22Q	3B22R	3B22S	3B22T	3B22U	3B22V	3B22W	3B22X	3B22Y	3B22Z	3B23A	3B23B	3B23C	3B23D	3B23E	3B23F	3B23G	3B23H	3B23I	3B23J	3B23K	3B23L	3B23M	3B23N	3B23O	3B23P	3B23Q	3B23R	3B23S	3B23T	3B23U	3B23V	3B23W	3B23X	3B23Y	3B23Z	3B24A	3B24B	3B24C	3B24D	3B24E	3B24F	3B24G	3B24H	3B24I	3B24J	3B24K	3B24L	3B24M	3B24N	3B24O	3B24P	3B24Q	3B24R	3B24S	3B24T	3B24U	3B24V	3B24W	3B24X	3B24Y	3B24Z	3B25A	3B25B	3B25C	3B25D	3B25E	3B25F	3B25G	3B25H	3B25I	3B25J	3B25K	3B25L	3B25M	3B25N	3B25O	3B25P	3B25Q	3B25R	3B25S	3B25T	3B25U	3B25V	3B25W	3B25X	3B25Y	3B25Z	3B26A	3B26B	3B26C	3B26D	3B26E	3B26F	3B26G	3B26H	3B26I	3B26J	3B26K	3B26L	3B26M	3B26N	3B26O	3B26P	3B26Q	3B26R	3B26S	3B26T	3B26U	3B26V	3B26W	3B26X	3B26Y	3B26Z	3B27A	3B27B	3B27C	3B27D	3B27E	3B27F	3B27G	3B27H	3B27I	3B27J	3B27K	3B27L	3B27M	3B27N	3B27O	3B27P	3B27Q	3B27R	3B27S	3B27T	3B27U	3B27V	3B27W	3B27X	3B27Y	3B27Z	3B28A	3B28B	3B28C	3B28D	3B28E	3B28F	3B28G	3B28H	3B28I	3B28J	3B28K	3B28L	3B28M	3B28N	3B28O	3B28P	3B28Q	3B28R	3B28S	3B28T	3B28U	3B28V	3B28W	3B28X	3B28Y	3B28Z	3B29A	3B29B	3B29C	3B29D	3B29E	3B29F	3B29G	3B29H	3B29I	3B29J	3B29K	3B29L	3B29M	3B29N	3B29O	3B29P	3B29Q	3B29R	3B29S	3B29T	3B29U	3B29V	3B29W	3B29X	3B29Y	3B29Z	3B30A	3B30B	3B30C	3B30D	3B30E	3B30F	3B30G	3B30H	3B30I	3B30J	3B30K	3B30L	3B30M	3B30N	3B30O	3B30P	3B30Q	3B30R	3B30S	3B30T	3B30U	3B30V	3B30W	3B30X	3B30Y	3B30Z	3B31A	3B31B	3B31C	3B31D	3B31E	3B31F	3B31G	3B31H	3B31I	3B31J	3B31K	3B31L	3B31M	3B31N	3B31O	3B31P	3B31Q	3B31R	3B31S	3B31T	3B31U	3B31V	3B31W	3B31X	3B31Y	3B31Z	3B32A	3B32B	3B32C	3B32D	3B32E	3B32F	3B32G	3B32H	3B32I	3B32J	3B32K	3B32L	3B32M	3B32N	3B32O	3B32P	3B32Q	3B32R	3B32S	3B32T	3B32U	3B32V	3B32W	3B32X	3B32Y	3B32Z	3B33A	3B33B	3B33C	3B33D	3B33E	3B33F	3B33G	3B33H	3B33I	3B33J	3B33K	3B33L	3B33M	3B33N	3B33O	3B33P	3B33Q	3B33R	3B33S	3B33T	3B33U	3B33V	3B33W	3B33X	3B33Y	3B33Z	3B34A	3B34B	3B34C	3B34D	3B34E	3B34F	3B34G	3B34H	3B34I	3B34J	3B34K	3B34L	3B34M	3B34N	3B34O	3B34P	3B34Q	3B34R	3B34S	3B34T	3B34U	3B34V	3B34W	3B34X	3B34Y	3B34Z	3B35A	3B35B	3B35C	3B35D	3B35E	3B35F	3B35G	3B35H	3B35I	3B35J	3B35K	3B35L	3B35M	3B35N	3B35O	3B35P	3B35Q	3B35R	3B35S	3B35T	3B35U	3B35V	3B35W	3B35X	3B35Y	3B35Z	3B36A	3B36B	3B36C	3B36D	3B36E	3B36F	3B36G	3B36H	3B36I	3B36J	3B36K	3B36L	3B36M	3B36N	3B36O	3B36P	3B36Q	3B36R	3B36S	3B36T	3B36U	3B36V	3B36W	3B36X	3B36Y	3B36Z	3B37A	3B37B	3B37C	3B37D	3B37E	3B37F	3B37G	3B37H	3B37I	3B37J	3B37K	3B37L	3B37M	3B37N	3B37O	3B37P	3B37Q	3B37R	3B37S	3B37T	3B37U	3B37V	3B37W	3B37X	3B37Y	3B37Z	3B38A	3B38B	3B38C	3B38D	3B38E	3B38F	3B38G	3B38H	3B38I	3B38J	3B38K	3B38L	3B38M	3B38N	3B38O	3B38P	3B38Q	3B38R	3B38S	3B38T	3B38U	3B38V	3B38W	3B38X	3B38Y	3B38Z	3B39A	3B39B	3B39C	3B39D	3B39E	3B39F	3B39G	3B39H	3B39I	3B39J	3B39K	3B39L	3B39M	3B39N	3B39O	3B39P	3B39Q	3B39R	3B39S	3B39T	3B39U	3B39V	3B39W	3B39X	3B39Y	3B39Z	3B40A	3B40B	3B40C	3B40D	3B40E	3B40F	3B40G	3B40H	3B40I	3B40J	3B40K	3B40L	3B40M	3B40N	3B40O	3B40P	3B40Q	3B40R	3B40S	3B40T	3B40U	3B40V	3B40W	3B40X	3B40Y	3B40Z	3B41A	3B41B	3B41C	3B41D	3B41E	3B41F	3B41G	3B41H	3B41I	3B41J	3B41K	3B41L	3B41M	3B41N	3B41O	3B41P	3B41Q	3B41R	3B41S	3B41T	3B41U	3B41V	3B41W	3B41X	3B41Y	3B41Z	3B42A	3B42B	3B42C	3B42D	3B42E	3B42F	3B42G	3B42H	3B42I	3B42J	3B42K	3B42L	3B42M	3B42N	3B42O	3B42P	3B42Q	3B42R	3B42S	3B42T	3B42U	3B42V	3B42W	3B42X	3B42Y	3B42Z	3B43A	3B43B	3B43C	3B43D	3B43E	3B43F	3B43G	3B43H	3B43I	3B43J	3B43K	3B43L	3B43M	3B43N	3B43O	3B43P	3B43Q	3B43R	3B43S	3B43T	3B43U	3B43V	3B43W	3B43X	3B43Y	3B43Z	3B44A	3B44B	3B44C	3B44D	3B44E	3B44F	3B44G	3B44H	3B44I	3B44J	3B44K	3B44L	3B44M	3B44N	3B44O	3B44P	3B44Q	3B44R	3B44S	3B44T	3B44U	3B44V	3B44W	3B44X	3B44Y	3B44Z	3B45A	3B45B	3B45C	3B45D	3B45E	3B45F	3B45G	3B45H	3B45I	3B45J	3B45K	3B45L	3B45M	3B45N	3B45O

Appendix C: (continued) Fjord Survey: October 1990: Numbers per 0.1m<sup>2</sup>

TAXON	3B01A	3B01B	3B01A	3B01B	3B02A	3B02B	3B03A	3B03B	3B05A	3B05B	3B06A	3B06B	3JE1A	3JE1B	3JE2A	3JE2B	3JE3A	3JE3B	3JE4A	3JE4B	3JE5A	3JE5B	3JE6A	3JE6B
<i>Yoldia thraeciformis</i>	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GASTROPODA																								
<i>Cyllichna alba</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cyllichna attonse</i>	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1
<i>Leptogyra alaskana?</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mitrella gausapata</i>	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Turbonilla aurantia</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCAPHOPODA																								
<i>Cadulus tolmiei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhabdus rectius</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APLACOPHORA																								
<i>Chaetoderma attenuatum</i>	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0
<i>Chaetoderma robustum</i>	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
POLYCHAETA																								
<i>Agiophamus rubella anops</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Amage anops</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Amphicteis scaphobranchiata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ampharetidae</i> sp. Juv.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Ancistrosyllis groenlandica</i>	0	0	0	0	0	0	0	0	2	0	0	0	0	1	1	1	0	0	4	2	1	0	0	0
<i>Anobothrus gracilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Antinoëlla macrolepida</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Acesta neosuecica</i>	0	0	0	0	1	0	7	0	0	0	1	0	2	8	0	0	2	2	0	0	10	0	16	4
<i>Acesta lopezi</i>	0	0	4	13	20	4	9	0	0	0	0	0	2	0	0	0	0	1	2	0	0	0	0	0
<i>Allia quadrilobata</i>	0	0	0	0	2	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>A sclerachelus beringianus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barantonella americana</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Artacamella hancocki</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Brada sachalina</i>	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brada villosa</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chaetozone</i> sp. 1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chaetozone spinosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Chone</i> sp. Indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Cirrophorus branchiatus</i>	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cossura</i> sp. 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cossura longocirrata</i>	0	0	7	14	5	0	30	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0

Appendix C: (continued) Fjord Survey: October 1990: Numbers per 0.1m<sup>2</sup>

TAXON	3B01A	3B01B	3B01A	3B01B	3B02A	3B02B	3B03A	3B03B	3B0USA	3B0USB	3B06A	3B06B	3JE1A	3JE1B	3JE2A	3JE2B	3JE3A	3JE3B	3JE4A	3JE4B	3JE5A	3JE5B	3JE6A	3JE6B
<i>Decamastus gracilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Drillonereis falcata minor</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Exogone laurel</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galathowenia oculata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Glycera capitata</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	1	0	1
<i>Glycera sp. Indet.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Glycinde armigera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Conicola annulata</i>	0	0	1	0	0	0	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Gyptis brevipalpa</i>	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lolitascopelos pugettensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
<i>Hesionidae sp. Indet.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Heteromastus filibranchus</i>	0	0	0	0	0	0	0	3	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Laonice cirrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Levinsenia gracilis</i>	0	0	15	39	6	2	1	1	1	2	1	0	1	3	5	2	1	3	0	2	6	0	2	1
<i>Lumbrineris bicirrata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lumbrineris sp. Indet.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lumbrineris zonata</i>	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0
<i>Maldane glebifex</i>	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maldanidae sp. Indet.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mediomastus californiensis</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
<i>Melimna cristata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nephtys cornuta cornuta</i>	0	0	0	0	2	1	3	4	0	0	0	0	0	4	0	0	1	0	0	0	1	0	2	0
<i>Nephtys punctata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ninoe gemma</i>	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nereis zonata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Notoprotus pacificus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ophidion juv.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ophidion iridescent</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pachycerianthus fimbriatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Paraninoe simpia</i>	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Paranoidae sp. Indet.</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pherusa pluviosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pectinaria californiensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pectinaria moorei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pholoe minuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix C: (continued) Fjord Survey: October 1990: Numbers per 0.1m<sup>2</sup>

TAXON	3B01A	3B01B	3B01A	3B01B	3B02A	3B02B	3B03A	3B03B	3B05A	3B05B	3B06A	3B06B	3JE1A	3JE1B	3JE2A	3JE2B	3JE3A	3JE3B	3JE4A	3JE4B	3JE5A	3JE6A	3JE6B	
<i>Phyllochaetopterus clavigerii</i>	0	0	24	46	61	58	18	28	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Pista moorei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Polydora</i> sp. Indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Polycirrus</i> sp. complex	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Polynoidae</i> sp. Indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Prionospio lighti</i>	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Prionospio</i> sp. Indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Prionospio steenstrupi</i>	0	0	2	2	7	4	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Rhodine bitorquata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Spionidae</i> sp. Indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Sabellaria cementarium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
<i>Spiophanes kroyeri</i>	0	0	0	0	2	0	1	0	0	0	0	0	0	3	0	0	0	0	1	0	15	0	0	
<i>Sternaspis scutata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Syllis heterochaeta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	
<i>Terebellidae</i> sp. Indet.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
<i>Terebellides stroemi</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	3	8	0	1	3	1	0	0	2	0	
<i>Tharyx</i> sp. Indet.	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Tharyx multifilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Tomopteris</i> sp. 1	0	0	0	0	0	0	3	0	0	0	0	0	0	2	7	0	0	0	0	0	0	0	0	
<i>Travissia forbesii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>OLIGOCHAETA</b>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>NEMERTEA</b>																								
<i>Cerebratulus</i> sp.	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Heteronemertea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<i>Paleonemertea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
<b>NEMERTINEA</b>																								
<i>Nemertinea</i> sp. Indet.	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	3	0	0	
<b>SIPUNCULA</b>																								
<i>Nephosoma minutum</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	0	6	4	4	0	0	11	0	0
<b>HYDROZOA</b>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>ECHIURA</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Appendix C (continued): Fjord Survey: October 1990; Numbers per 0.1m<sup>2</sup>

[ЗК11А](#) [ЗК11Б](#) [ЗК12А](#) [ЗК12Б](#) [ЗК13А](#) [ЗК13Б](#) [ЗК14А](#) [ЗК14Б](#) [ЗКН2А](#) [ЗКН2Б](#) [ЗКН3А](#) [ЗКН3Б](#) [ЗКН4А](#) [ЗКН4Б](#) [ЗКН5А](#) [ЗКН5Б](#) [ЗКН6А](#) [ЗКН6Б](#) [ЗКН8](#) [ЗКН10А](#) [ЗКН10Б](#) [ЗКН11А](#) [ЗКН11Б](#)

AMPHIPODA

Bathymedon pumilus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Caprella striata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Calliopius	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cyphocaris challengerii	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Harpinopsis fulgens	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	4	1	1	0
Heterophoxus oculatus	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hyperia ?medusarum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lysianassidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monoculodes zernovi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Paraphoxus oculatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Parathemisto pacifica	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Photis ?placida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Primno macropora	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhachotropis clemens	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Schisturella cocula	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scina borealis	1	0	0	2	0	1	0	0	1	0	0	0	5	0	1	0	1	1	1	0	1	1	4	1	0	0
CUMACEA																										
Eudorella pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eudorellopsis integra	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Leucon nasica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
Diatystilia cf. spinulosa	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DECAPODA																										
Pinnixa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Decapod larvae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paguroidea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Pasiphaea pacifica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spirontocaris holmesi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spirontocaris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TANAIDACEA																										
Araphura brevimanus	0	0	0	0	0	0	3	2	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Leptognathia gracilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OSTRACODA																										
Alacria alata minor	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m<sup>2</sup>

	3K11A	3K11B	3K12A	3K12B	3K13A	3K13B	3K14A	3K14B	3KN2A	3KN2B	3KN3A	3KN3B	3KN4A	3KN4B	3KN5A	3KN5B	3KN6A	3KN6B	3L01A	3L01B	3L02A	3L02B	3L03A	3L03B
<i>Scleroconcha trituberculatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
<i>Euphilomedes producta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Diastereope pilosa</i>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Paraconchoecia elegans</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>EUPHASIACEA</b>																								
<i>Euphausiacea parts</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thysanoessa pacifica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
<i>Euphausia pacifica</i>	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0
<i>Nematoscellis difficilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>MYSIDACEA</b>																								
<i>Mysididae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ECHINODERMATA</b>																								
<i>Molpadiia intermedia</i>	0	1	0	1	2	1	0	1	0	0	1	4	1	0	0	0	0	0	0	0	0	0	0	0
<i>Chiridota albatrossi</i>	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	1	2	2	2	1	0
<i>Briaster latifrons</i>	0	0	0	1	1	0	1	0	0	0	5	3	1	1	8	0	0	1	1	0	0	0	0	0
<i>Ophioria sarsi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	2	0	0
<i>Ophioria leptocentra</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
<i>Ophioria</i>	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	1	4	0	0	0	0	0	0
<i>Amphioplus strongyloplax</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ophiacantha</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stichaeidae</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leuroglossus stilbius schmidtii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>BIVALVIA</b>																								
<i>Adontorhina ferruginosa</i>	2	0	0	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0	0	0
<i>Axinopsida serricata</i>	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cardiomya oldroydi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cardiomya planetica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lucinoma annulata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Macoma carlottensis</i>	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Nucula tenuis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
<i>Psephidia lordi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Solemya reidi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thyasira gouldi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Yoldia martyria</i>	3	1	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	4	1	0	0
<i>Yoldia thraciaeformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix C (continued): Fjord Survey; October 1990; Numbers nos 0-1-2

ЗК11А ЗК11Б ЗК12А ЗК12В ЗК13А ЗК13В ЗК14А ЗК14В ЗКН2А ЗКН2В ЗКН3А ЗКН3В ЗКН4А ЗКН4В ЗКН5А ЗКН5В ЗКН6А ЗКН6В ЗЛ10А ЗЛ10В ЗЛ20А ЗЛ20В

GASTROPODA

**3K11A 3K11B 3K12A 3K12B 3K13A 3K13B 3K14A 3K14B 3K21A 3K21B 3K22A 3K22B 3K23A 3K23B 3K24A 3K24B 3K25A 3K25B 3K26A 3K26B 3L01A 3L01B 3L02A 3L02B 3L03A 3L03B**

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m<sup>2</sup>

3K11A 3K11B 3K12A 3K12B 3K13A 3K13B 3K14A 3K14B 3KN2A 3KN2B 3KN3A 3KN3B 3KN4A 3KN4B 3KN5A 3KN5B 3KN6A 3KN6B 3L01A 3L01B 3L02A 3L02B 3L03A 3L03B

<i>Pholoe minuta</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0
<i>Phyllochaetopterus claviger</i>	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pista moorei</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polydora</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polycirrus complex</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polynoidae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prionospio lighti</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
<i>Prionospio</i>	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Prionospio steenstrupi</i>	6	1	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhodine biturquata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spionidae</i>	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
<i>Sabellaria cementarium</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spiohanes kroyeri</i>	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sternaspis scutata</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
<i>Syllis heterochaeta</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Terebellidae</i>	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
<i>Terebellidae stromi</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tharyx</i>	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
<i>Tharyx multifilis</i>	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Travisia forbesii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nemertinea</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Tomopteria</i>	4	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>OLIGOCHAETA</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>HEMERTEA</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cerebratulus</i>	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heteronemertea</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
<i>Paleonemertea</i>	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>SIPUNCULA</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nephosoma minutum</i>	0	0	0	0	0	8	0	0	23	11	0	0	0	0	1	0	0	3	6	0	0	0
<b>HYDROZOA</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ECHIURA</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m<sup>2</sup>

Appendix 6 (continued): Fjord Survey: October 1990: Numbers per 0.1m<sup>2</sup>

TAXON	3L04A	3L04B	3TH2A	3TH2B	3T01A	3T01B	3T02A	3T02B	3T03A	3T03B	3HA4A	3HA4B
<i>Euphilomedes producta</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Diasterope pilosa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Paraconchoecia elegans</i>	0	0	0	0	0	0	1	0	0	0	0	0
<b>EUPHASIACEA</b>												
<i>Euphausiacea parts</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thysanoessa pacifica</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphausia pacifica</i>	1	4	0	0	1	1	1	0	0	0	0	0
<i>Nematoscellis difficilis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<b>HYSIDAEA</b>												
<b>ECHINODERMATA</b>												
<i>Holpadia intermedia</i>	0	1	0	0	0	0	0	0	0	0	0	0
<i>Chiridota albatrossi</i>	0	0	0	0	0	0	0	0	0	3	0	0
<i>Brisaster latifrons</i>	0	0	1	0	0	0	2	1	4	4	0	3
<i>Ophiura sarsi</i>	0	0	2	0	0	0	0	0	0	0	0	0
<i>Ophiura leptocentra</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ophiura</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Amphioplus strongyloplax</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ophiacantha</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stichaeidae</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leuroglossus stilbius schmidii</i>	0	0	0	0	0	0	0	0	0	0	0	0
<b>BIVALVIA</b>												
<i>Adontorhina ferruginea</i>	0	0	0	1	0	0	4	0	0	0	2	0
<i>Axiopspida serricata</i>	4	19	0	16	0	0	0	1	0	0	0	0
<i>Cardiomya oldroydi</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cardiomya planctica</i>	0	0	0	0	0	0	0	1	0	0	0	0
<i>Lucinoma annulata</i>	0	0	1	0	0	0	0	0	0	0	0	0
<i>Macoma carlottensis</i>	0	1	0	0	0	0	0	0	1	2	3	1
<i>Nucula tenuis</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Psephidia lordi</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Solemya reidi</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thyasira gouldi</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Yoldia martyria</i>	0	0	0	0	3	1	0	2	0	0	0	0
<i>Yoldia thraciaeformis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<b>GASTROPODA</b>												
<i>Cyllichna alba</i>	0	0	0	0	0	0	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m<sup>2</sup>

TAXON	3L04A	3L04B	3TH2A	3TH2B	3T01A	3T01B	3T02A	3T02B	3T03A	3T03B	3HA4A	3HA4B
<i>Cyllichna attonae</i>	0	1	0	0	1	0	1	0	0	0	0	0
<i>Leptogyra alaskana?</i>	0	0	0	0	1	1	0	0	0	0	0	0
<i>Mitrella gausapata</i>	0	0	1	0	0	0	0	0	0	0	0	0
<i>Turbanilla aurantia</i>	0	1	0	0	0	0	0	0	0	0	0	0
SCAPHOPODA												
<i>Cadulus tolmei</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhabdus rectius</i>	0	0	0	0	0	0	0	0	0	0	0	1
APLACOPHORA												
<i>Chaetoderma attenuatum</i>	1	5	2	0	0	2	1	0	5	4	0	0
<i>Chaetoderma robustum</i>	0	0	1	0	0	0	0	0	0	0	0	0
POLYCHAETA												
<i>Aglaophamus rubella anops</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Amage anops</i>	0	0	0	2	0	0	0	0	0	2	0	0
<i>Amphicteis scaphobranchiata</i>	0	0	0	0	0	0	0	0	1	0	0	0
<i>Ampharctidae</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ancistrosyllis groenlandica</i>	0	0	0	0	0	0	0	0	1	2	0	0
<i>Anobothrus gracilis</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Antinoëlla macrolepida</i>	0	0	1	0	0	0	0	0	0	0	1	0
<i>Acesta neosuecica</i>	0	0	0	0	5	2	4	13	31	23	4	5
<i>Acesta lopezi</i>	0	3	0	0	0	0	0	0	4	0	0	0
<i>Allia quadrilobata</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ascleraschelius beringianus</i>	0	1	0	0	0	0	0	0	0	0	0	0
<i>Barantonia americana</i>	1	0	0	0	0	0	0	0	0	0	0	0
<i>Artacamella hancocki</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brada sachalina</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brada villosa</i>	0	0	0	0	0	0	0	0	0	0	0	0
Chaetozone												
<i>Chaetozone spinosa</i>	0	0	0	0	0	0	0	0	0	0	2	12
<i>Ghone</i>	0	0	0	0	0	0	0	1	0	0	0	0
<i>Cirrophorus branchiatus</i>	0	1	0	0	0	0	0	0	0	0	0	0
<i>Cossura</i>	0	0	0	0	0	0	0	0	5	0	8	3
<i>Cossura longocirrata</i>	0	0	0	0	0	0	0	0	2	0	6	4
<i>Decamastus gracilis</i>	0	1	0	0	0	0	0	0	0	1	0	0
<i>Drilonereis falciata minor</i>	0	0	0	2	0	0	0	0	0	0	0	0
<i>Exogone lourei</i>	0	0	0	0	0	0	0	0	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m<sup>2</sup>

TAXON	3L04A	3L04B	3TH2A	3TH2B	3T01A	3T01B	3T02A	3T02B	3T03A	3T03B	3HA4A	3HA4B
<i>Calathousenia oculata</i>	0	2	1	31	0	0	0	0	1	1	0	0
<i>Glycera capitata</i>	1	8	0	0	0	0	0	0	8	5	2	2
<i>Glycera</i>	0	0	0	0	0	0	0	0	1	0	0	0
<i>Glycinde armigera</i>	0	2	0	3	0	0	0	0	0	2	0	1
<i>Coniada annulata</i>	0	2	0	0	0	0	0	0	0	1	0	0
<i>Cyptis brevipalpa</i>	1	1	0	0	0	0	0	0	0	0	0	0
<i>Leitoscoloplos pugettensis</i>	0	0	0	0	0	0	0	0	0	0	0	0
Hesionidae	0	0	0	0	0	0	0	0	0	0	0	0
<i>Heteromastus filobranchus</i>	18	6	0	0	0	0	0	0	0	2	0	2
<i>Laonice cirtata</i>	0	0	0	0	0	0	0	0	0	0	1	0
<i>Levinenia gracilis</i>	0	0	0	1	0	0	2	1	5	3	16	8
<i>Lumbrineris bicirrata</i>	0	0	0	0	0	0	0	0	0	0	1	0
<i>Lumbrineris</i>	1	7	0	8	0	0	0	0	26	17	2	5
<i>Lumbrineris zonata</i>	0	0	0	0	0	0	0	0	2	2	0	0
<i>Maldane glebifex</i>	2	10	2	64	0	0	0	3	5	0	0	0
Maldanidae	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mediomastus californiensis</i>	0	4	0	0	0	0	0	0	0	1	0	0
<i>Melitta cristata</i>	0	0	0	3	0	0	0	0	0	3	0	0
<i>Nephtys cornuta cornuta</i>	0	0	1	0	0	0	0	0	3	0	13	6
<i>Nephtys punctata</i>	0	0	0	0	1	0	0	0	0	0	0	0
<i>Ninoe gemmae</i>	0	0	0	0	0	0	0	0	0	0	1	0
<i>Nereis zonata</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Notoproctus pacificus</i>	0	0	0	2	0	0	0	0	0	0	0	0
<i>Omphis</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Omphis iridescent</i>	0	0	1	5	0	0	0	0	0	0	0	0
<i>Pachycerianthus fimbriatus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Paraminoe simpta</i>	0	0	0	0	0	0	0	0	0	0	0	0
Parsonidae	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pherusa plumosa</i>	0	0	0	2	0	0	0	0	0	0	0	0
<i>Pectinaria californiensis</i>	0	3	0	0	0	0	0	0	0	0	0	0
<i>Pectinaria moorei</i>	0	0	0	0	0	0	0	0	0	0	0	1
<i>Pholoe minuta</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Phyllochaetopterus claparedii</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Pista moorei</i>	0	0	1	1	0	0	0	0	0	0	0	0
Polydora	0	0	0	0	0	0	0	2	0	0	0	0

Appendix C (continued): Fjord Survey: October 1990: Numbers per 0.1m<sup>2</sup>

TAXON	3L04A	3L04B	3TH2A	3TH2B	3T01A	3T01B	3T02A	3T02B	3T03A	3T03B	3WA4A	3WA4B
Polycirrus complex	1	0	0	0	0	0	0	0	0	0	0	0
Polynoidae	0	0	0	0	0	0	0	0	0	0	0	1
Prionospio lighti	0	0	0	0	0	0	0	0	0	0	0	0
Prionospio	0	0	0	0	0	0	0	0	0	0	0	0
Prionospio steenstrupi	3	0	0	1	0	0	0	0	46	5	2	3
Rhodine bitorquata	2	1	0	15	0	0	0	0	3	5	2	0
Spionidae	0	0	0	0	0	0	0	0	0	0	5	0
Sabellaria cementarium	0	0	0	0	0	0	0	0	0	0	0	0
Spiophanes kroyeri	0	0	0	0	0	0	1	0	1	0	0	0
Sternaspis scutata	0	0	0	0	0	0	1	0	0	1	0	1
Syllis heterochaeta	0	0	0	0	0	0	0	0	0	0	0	0
Terebellidae	0	0	0	0	0	0	0	0	0	0	0	0
Terebellides stroemi	0	0	0	0	1	0	0	2	1	0	0	0
Tharyx	0	0	0	0	0	0	0	0	1	0	1	2
Tharyx multifilis	0	0	1	0	0	0	0	0	0	0	0	0
Travisia forbesii	0	0	0	2	0	0	0	0	0	0	0	0
Hemertinea	0	0	0	0	0	0	2	0	0	3	0	0
Tomopteris	1	0	0	0	0	0	0	0	0	0	0	0
OLIGOCHAETA	0	0	0	0	0	0	0	0	0	0	0	0
NEMERTEA												
Cerebratulus	0	1	0	0	0	0	0	0	2	0	0	0
Heteronemertea	0	0	0	0	0	0	0	0	0	0	0	0
Paleonemertea	0	0	0	0	0	0	0	0	0	0	0	1
SIPUNCULA												
Nephosoma minutum	0	0	0	15	0	0	0	0	0	0	0	0
HYDROZOA	0	0	0	0	0	0	0	0	0	0	0	0
ECHIURA	0	0	0	0	0	0	0	0	0	0	0	0