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**Vertical Distribution of Zooplankton,
Including Ichthyoplankton,
in Shelikof Strait, Alaska:**

**Data from Fisheries Oceanography
Coordinated Investigations (FOCI),
Cruise in May 1986**

December 1988

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Vertical Distribution of Zooplankton, Including Ichthyoplankton,
in Shelikof Strait, Alaska:
Data from Fisheries-Oceanography Coordinated Investigations
(FOCI) Cruise in May 1986.

by

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INTRODUCTION

The data in this report were collected as part of the NOAA program Fisheries-Oceanography Coordinated Investigations (FOCI). These data were obtained as part of an ongoing effort to describe the environment of the Shelikof Strait region of Alaska and understand how it relates to the recruitment of walleye pollock, Theragra chalcogramma. Background studies, emphasizing areal distribution and seasonal development (March-October) of zooplankton communities, were conducted in 1985 and are reported by Siefert et al. (1988). We report here on the vertical distribution and composition of zooplankton, including ichthyoplankton, from this region during early May 1986. A subsequent report will provide comparable data for late May 1987. Data summarized in these various reports are undergoing analysis and will be the subjects of more detailed manuscripts, some currently in preparation.

METHODS

Samples were collected during FOCI cruise 2MF86 aboard the NOAA Ship Miller Freeman from 1-19 May 1986 (Incze et al. 1987). Figure 1 shows the area studied during the cruise and Figure 2 shows the locations of stations sampled for vertical distributions of zooplankton.

Part of the sampling focussed on three geographical areas:

Shelikof Strait (station 166); the sea valley between Chirikof Island and the Semidi Islands (122, 125); and the shallow region between the Semidi Islands and Sutwik Island (147, 157). The paired stations (numbers in parentheses above) represent sampling during daylight and darkness; while the single collection in Shelikof Strait was due to gear malfunction which could not be corrected in time to sample under both conditions. Additional sampling (stations 78-95) was conducted about a radar-tracked drifter drogued at 35 m and deployed in an area of high larval pollock abundance. The drifter was followed by the ship to allow us to examine diel movements of these larvae and other zooplankton. This drifter study continued for four days with some sampling, but operations slated to collect vertically distributed plankton samples had to be curtailed after the second day due to sea state. Later in the cruise, additional diel data were collected at stations 119-121.

Vertically distributed plankton samples were obtained from discrete depths with a MOCNESS sampler (Wiebe et. al. 1976) equipped with 153 um mesh nets. A mechanical flowmeter was used to estimate the volume of water filtered by the nets; and depth, temperature and fluorescence were continuously recorded. Nets were opened and closed to sample the following nominal depth intervals, as allowed by station depth: 0-15, 15-30, 30-45, 45-60, 60-80, 80-100, 100-150 and 150-200 m. Samples were preserved in 5% buffered formalin:seawater for later laboratory analysis.

In the laboratory, invertebrates were sorted into taxonomic categories emphasizing the most abundant species, as well as those taxa of particular interest to recruitment studies of walleye pollock larvae. A list of these categories is given in Table 1, with definitions of abbreviations used throughout this report. Ichthyoplankton were identified to the lowest taxonomic level possible. A summary of ichthyoplankton taxa found during this study is listed in Table 2.

Samples were sorted at the Polish Sorting Center in Szczecin, Poland and identifications made in Poland were verified by biologists at the Northwest and Alaska Fisheries Center in Seattle. Ichthyoplankton were removed and identified from the entire sample prior to sorting invertebrate zooplankton. After ichthyoplankton were removed from the sample the sorting procedures described below were followed. Large organisms such as shrimp and jellyfish were removed and noted. The sample was then split with a Folsom plankton splitter to obtain a subsample with approximately 100-200 organisms $\geq 5\text{mm}$ in their maximum dimension, however splits were not made beyond $1/64$ of the original sample. With a few exceptions (decapod larvae, euphausiid furcilliae and larvaceans), these "large organisms" were removed from the sample, identified and tabulated. Next, one or two smaller subsamples were examined for all remaining taxa. The first small subsample was taken so as to obtain approximately 300-500 organisms. This subsample often provided sufficient counts (at least 30) of most of the taxa of particular

interest to the recruitment study. If it did not, then a second subsample was sorted for these organisms.

RESULTS

Invertebrate and ichthyoplankton taxa found in each sample are listed by station in Appendices 1 and 2, respectively. Taxa are listed in order of abundance and each list includes: the number of organisms counted; the fraction of the sample from which they were counted (sub/fac); their concentration per 10m^3 (invertebrate zooplankton) and 1000m^3 (ichthyoplankton); and the percent of either the invertebrates or the ichthyoplankton that each taxon represents in the sample. In each appendix, samples are identified by station numbers, location is given to tenths of a degree of latitude and longitude, date and time are GMT, station depth and sample intervals are in meters, volume filtered is expressed in cubic meters and net mesh is in micrometers.

With some invertebrate categories, we typically did not spend the time to identify and record all species encountered. However, notes were kept on the most abundant species found. These species are listed in Table 3.

DISCUSSION

Care must be taken when using these data for quantitative comparisons. Not all taxa were quantitatively retained with a

net of 153 μm mesh. The width of the widest opening in the net (the diagonal measure) is approximately 216 μm , therefore organisms with a minimum dimension less than this would not be retained consistently. Some of the obvious taxa not quantitatively retained because of size are: many invertebrate eggs and larvae; some copepod nauplii; early copepodite stages of Pseudocalanus spp. (C2 and C1) and Acartia spp.; Metridiidae C1; all stages of Oithona spp. most common in the Gulf of Alaska; and other small copepods. Taxa (size/life history stages) that were most likely retained consistently by the net are underlined in Table 1. Data for some other taxa are not quantitative because of the effects of sampling and preservation. These taxa include the gelatinous zooplankton (ie. cnidarian medusae and larvaceans). The sample splitting process also affects estimates of thecosomate pteropods because they do not stay suspended in the sample.

ACKNOWLEDGMENTS

We thank Shailer Cummings and David Nieman for their diligent work with the MOCNESS; Coreene Stewart for assisting with sample preservation; the staff at the sorting center in Szczecin, Poland; and the officers and crew aboard the NOAA ship Miller Freeman. We gratefully acknowledge Jay Clark for providing assistance on the cruise, with mapping programs and with ichthyoplankton data; Karen Conlan and staff for graphics; and Susan Fauska and her staff for final report preparation.

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Table 1. Taxonomic and size/life history stage categories of invertebrates identified in zooplankton samples from Shelikof Strait. Size/stage categories underlined here were most likely retained by the 153um mesh nets used to collect these samples.

<u>Taxon</u>	<u>Size/Life History Stages*</u>
<u>Acartia</u> spp.	
Anomura	<u>larva</u>
Bivalvia	<5mm, veliger <5mm
Brachyura	<u>larva</u>
Bryozoa	cyphonautes <5mm
<u>Calanus marshallae</u>	<u>adult F, adult M, C5, C4, C3, C2, C1</u>
<u>C. pacificus</u>	<u>adult F, adult M, C5, C4, C3, C2, C1</u>
Cephalopoda	<u>≥5mm, <5mm</u>
Chaetognatha	<u>≥20mm, <20mm and ≥5mm, <5mm</u>
Cirripedia	nauplius <5mm, cypris <5mm
Cladocera	<5mm
Cnidaria	medusa ≥5mm, medusa <5mm
Ctenophora	≥5mm, <5mm
Cumacea	<u>≥5mm, <5mm</u>
Echinodermata	<u>≥5mm, <5mm, larva <5mm</u>
<u>Eucalanus bungii</u>	<u>adult F, adult M, C5 F, C5 M, C4 F, C4 M, C3, C2, C1</u>
Euphausiacea	<u>furcilia; calyptopis 3, 2, 1; damaged A&J; nauplius/metanauplius</u>
<u>Euphausia pacifica</u>	<u>A&J</u>
Foraminifera	<5mm
Gammaridea	<u>≥5mm, <5mm</u>
Gastropoda	<5mm, veliger <5mm
Gymnosomata	<u>≥5mm, <5mm</u>
Hyperiidea	<u>≥5mm, <5mm</u>

Table 1. Continued

<u>Taxon</u>	<u>Size/Life History Stages*</u>
Invertebrata	egg <5mm, <u>≥5mm</u> , <5mm
Larvacea	
<u>Metridia</u> spp.	adult F, adult M, C5 F, C5 M, C4
<u>Metridia pacifica</u>	adult F, adult M, C5 F, C5 M, C4
Metriididae	<u>C3, C2, C1</u>
Mysidacea	<u>≥5mm</u> , <5mm
Natantia	larva, <u>≥5mm A&J, <5mm A&J</u>
Nematoda	<u>≥5mm, <5mm</u>
<u>Neocalanus cristatus</u>	adult F, adult M, C5, C4, C3, C2, C1
<u>N. plumchrus</u>	adult F, adult M, C5, C4, C3, C2, C1
<u>Oithona</u> spp.	
Ostracoda	<5mm
Other Copepoda	nauplius, unidentified, <u>≥5mm, <5mm and</u> <u>≥2mm, <2mm</u>
Other zooplankton	<u>≥5mm</u> , <5mm
Polychaeta	<u>≥5mm</u> , <5mm
<u>Pseudocalanus</u> spp.	adult F, adult M, C5 F, C5 M, C4 F, C4 M
? <u>Pseudocalanus</u> spp.**	<u>C3, C2, C1</u>
Radiolaria	<5mm
Siphonophora	<u>≥5mm, <5mm</u>
<u>Tessarabrachion oculatum</u>	<u>A&J</u>
Thecosomata	<u>≥5mm</u> , <5mm
<u>Thysanoessa inermis</u>	<u>A&J</u>
<u>T. inspinata</u>	<u>A&J</u>
<u>T. longipes</u>	<u>A&J</u>

Table 1. Continued

<u>Taxon</u>	<u>Size/Life History Stages*</u>
<u>T. raschii</u>	<u>A&J</u>
<u>T. spinifera</u>	<u>A&J</u>
Unidentified Calanoida	<u>C3, C2, C1</u>

* Life history stage abbreviations:

F= female

M= male

C= copepodite

A&J= adults and juveniles combined

blank= stage not determined

**= uncertain as to identification

Table 2. Taxonomic and life history stage categories of ichthyoplankton identified in zooplankton samples from Shelikof Strait.

<u>Taxon and Life History Stage</u>	
Agonidae	larva
<u>Ammodytes hexapterus</u>	larva
<u>Anoplarchus</u> spp.	larva
<u>Artedius meanyi</u>	larva
Cottidae	larva
Cyclopteridae	larva
<u>Dasycottus setiger</u>	larva
disintegrated	larva
Gadidae	larva
<u>Gadus macrocephalus</u>	larva
<u>Gymnocanthus</u> sp. type A	larva
<u>Hemilepidotus hemilepidotus</u>	larva
<u>Hexagrammus decagrammus</u>	larva
<u>Hippoglossoides elassodon</u>	larva, egg
<u>Isopsetta isolepis</u>	egg
<u>Lepidopsetta bilineata</u>	larva
<u>Leuroglossus schmidtii</u>	larva
<u>Lumpenella longirostris</u>	larva
<u>Lumpenus maculatus</u>	larva
<u>Lyconectes aleutensis</u>	larva
<u>Malacocottus zonurus</u> type 1	larva
<u>Mallotus villosus</u>	larva

Table 2. Continued.

<u>Taxon and Life History Stage</u>	
<u>Myctophidae</u>	larva
<u>Parophrys vetulus</u>	larva
<u>Pholis</u> spp.	larva
<u>Platichthys stellatus</u>	larva
<u>Pleuronectes quadrituberculatus</u>	egg
Pleuronectidae	larva
<u>Poroclinus rothrocki</u>	larva
<u>Psettichthys</u> sp. type 2	larva
<u>Radulinus asprellus</u>	larva
<u>Stenobrachius leucopsarus</u>	larva
<u>Theragra chacoграмма</u>	larva, egg
unidentified	larva
<u>Zapora silenus</u>	larva

Table 3. Invertebrate zooplankton taxa not routinely identified to species, and the species most commonly encountered from these taxa in Shelikof Strait in May of 1986.

<u>Taxon</u>	<u>Composition</u>
<u>Acartia</u> spp.	<u>Acartia longiremis</u>
Anomura larva	Paguridae
Brachyura larva	<u>Chionoecetes bairdi</u> , other Majidae
Chaetognatha	<u>Eukronia hamata</u> , <u>Sagitta elegans</u>
Cnidaria medusa	<u>Aglantha digitale</u>
Gammaridea	<u>Cyphocharis challenger</u>
Gymnosomata	<u>Clione</u> spp.
Hyperiidea	<u>Themisto pacifica</u> , <u>Primno macropa</u>
Larvacea	<u>Fritillaria</u> spp., <u>Oikopleura</u> spp.
Mysidacea	<u>Meterothrops</u> spp.
Natantia A&J	<u>Pandalus borealis</u>
<u>Oithona</u> spp.	<u>Oithona similis</u>
Other Copepoda ≥ 5 mm	Euchaetidae
Other Copepoda ≥ 2 and < 5 mm	Euchaetidae, Scolecithricidae
Other Copepoda < 2 mm	Scolecithricidae, <u>Microcalanus</u> spp., <u>Oncaea</u> spp.
Polychaeta	Tomopteridae
Thecosomata	<u>Limacina helicina</u>

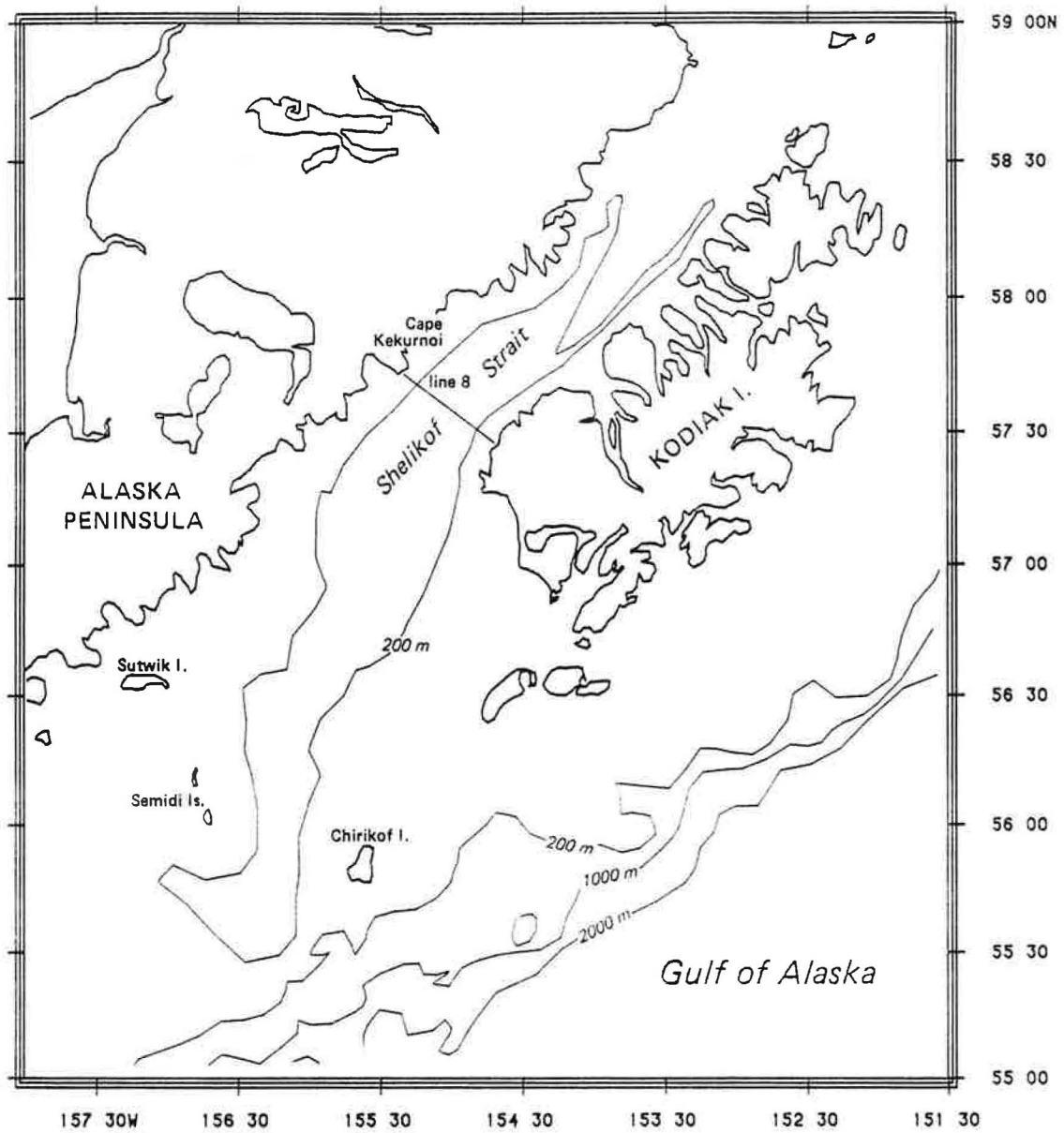


Figure 1. Geography and bathymetry of Shelikof Strait, northwestern Gulf of Alaska.

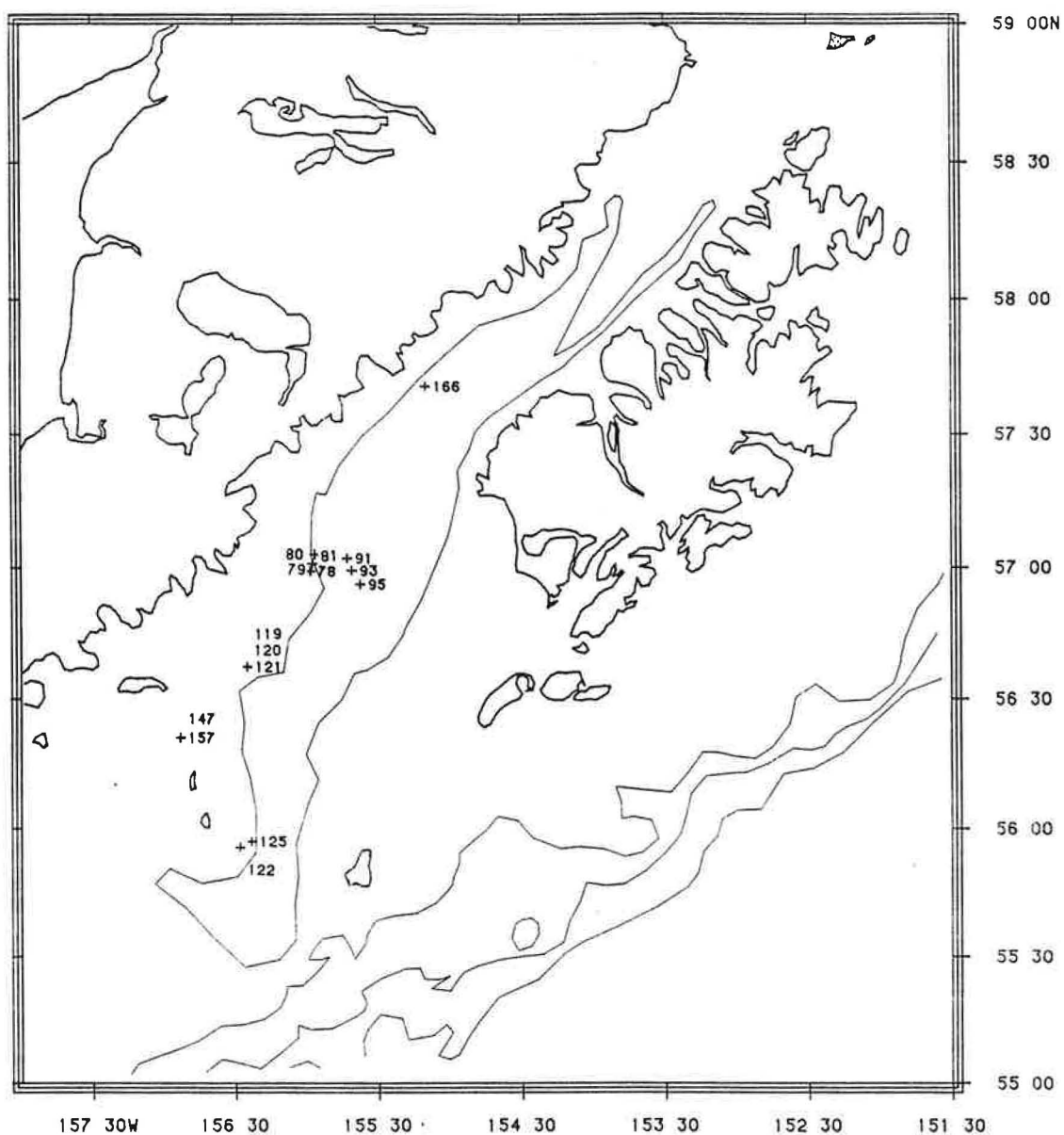


Figure 2. Stations sampled for zooplankton with MOCNESS, FOCI cruise 2MF86, 1-19 May 1986.

Appendix 1. Abundance of invertebrate zooplankton taxa at each station sampled with MOCNESS during FOCI cruise 2MF86 in Shelikof Strait, 1-19 May 1986.

STA. 078 56 59.2 N 155 58.1 W 08 May 86 16:11

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
220 1 - 15 187.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Euphausiacea - nauplius	80	512.0	2180	19.4
Other Copepoda - nauplius	62	512.0	1689	15.1
Cirripedia - nauplius <5mm	51	512.0	1390	12.4
Oithona spp.	51	512.0	1390	12.4
Pseudocalanus spp. - adult F	24	512.0	654	5.8
Acartia spp.	19	512.0	518	4.6
?Pseudocalanus spp. C-3	19	512.0	518	4.6
Invertebrata - egg <5mm	15	512.0	409	3.6
Pseudocalanus spp. C-5 M	14	512.0	381	3.4
Pseudocalanus spp. C-5 F	10	512.0	272	2.4
?Pseudocalanus spp. C-2	10	512.0	272	2.4
?Pseudocalanus spp. C-1	10	512.0	272	2.4
Pseudocalanus spp. C-4 M	9	512.0	245	2.2
Pseudocalanus spp. - adult M	8	512.0	218	1.9
Euphausiacea - calyptopis 2	94	30.1	151	1.3
Pseudocalanus spp. C-4 F	5	512.0	136	1.2
Other Copepoda damaged	3	512.0	82	0.7
Neocalanus plumchrus C-4	51	30.1	82	0.7
Polychaeta <5mm	2	512.0	54	0.5
Calanus marshallae C-2	28	30.1	45	0.4
Calanus marshallae C-3	26	30.1	42	0.4
Neocalanus plumchrus C-5	25	30.1	40	0.4
Euphausiacea - calyptopis 3	22	30.1	35	0.3
Natantia - larva	1	512.0	27	0.2
Cirripedia - cypris <5mm	1	512.0	27	0.2
Euphausiacea - furcilia	11	30.1	18	0.2
Calanus marshallae C-1	10	30.1	16	0.1
Euphausiacea - calyptopis 1	9	30.1	14	0.1
Calanus marshallae C-4	55	3.5	10	0.1
Neocalanus plumchrus C-3	5	30.1	8	0.1
Unidentified Calanoida C-2	4	30.1	6	0.1
Cnidaria - medusa >5mm	53	2.0	6	0.1
Chaetognatha 5-20mm	47	2.0	5	< 0.1
Neocalanus plumchrus C-2	1	30.1	2	< 0.1
Calanus marshallae C-5	7	3.5	1	< 0.1
Calanus marshallae - adult F	4	3.5	1	< 0.1
Calanus pacificus - adult M	1	3.5	< 1	< 0.1
Calanus marshallae - adult M	1	3.5	< 1	< 0.1
Calanus pacificus - adult F	1	3.5	< 1	< 0.1
Eucalanus bungii C-5 F	1	2.0	< 1	< 0.1
Eucalanus bungii - adult F	1	2.0	< 1	< 0.1
			11218	100.

STA. 078 56 59.2 N 155 58.1 W 08 May 86 16:11

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
220 15 - 31 68.3 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda - nauplius	101	1024.0	15143	24.6
Oithona spp.	89	1024.0	13343	21.7
?Pseudocalanus spp. C-2	25	1024.0	3748	6.1
Invertebrata - egg <5mm	24	1024.0	3598	5.8
?Pseudocalanus spp. C-1	24	1024.0	3598	5.8
Euphausiacea - nauplius	21	1024.0	3148	5.1
Neocalanus plumchrus C-5	60	341.3	2998	4.9
Pseudocalanus spp. - adult F	34	341.3	1699	2.8
?Pseudocalanus spp. C-3	11	1024.0	1649	2.7
Cirripedia - nauplius <5mm	8	1024.0	1199	1.9
Pseudocalanus spp. C-4 M	23	341.3	1149	1.9
Pseudocalanus spp. C-5 M	23	341.3	1149	1.9
Pseudocalanus spp. C-4 F	23	341.3	1149	1.9
Other Copepoda <2mm	7	1024.0	1049	1.7
Pseudocalanus spp. - adult M	21	341.3	1049	1.7
Pseudocalanus spp. C-5 F	21	341.3	1049	1.7
Neocalanus plumchrus C-4	19	341.3	949	1.5
Thecosomata <5mm	5	1024.0	750	1.2
Calanus marshallae C-1	14	341.3	700	1.1
Calanus marshallae C-2	7	341.3	350	0.6
Polychaeta <5mm	2	1024.0	300	0.5
Metriididae C-3	2	1024.0	300	0.5
Echinodermata - larva <5mm	2	1024.0	300	0.5
Chaetognatha <5mm	2	1024.0	300	0.5
Acartia spp.	99	15.3	222	0.4
Metriididae C-2	1	1024.0	150	0.2
Calanus marshallae C-3	3	341.3	150	0.2
Chaetognatha 5-20mm	67	8.0	78	0.1
Calanus marshallae C-4	24	15.3	54	0.1
Unidentified Calanoida C-2	1	341.3	50	0.1
Neocalanus plumchrus C-2	1	341.3	50	0.1
Calanus marshallae - adult F	15	15.3	34	0.1
Euphausiacea - calyptopis 1	12	15.3	27	< 0.1
Calanus marshallae C-5	11	15.3	25	< 0.1
Cnidaria - medusa >5mm	16	8.0	19	< 0.1
Euphausiacea - calyptopis 2	8	15.3	18	< 0.1
Chaetognatha >20mm	14	8.0	16	< 0.1
Euphausiacea - calyptopis 3	6	15.3	13	< 0.1
Metridia pacifica C-4	3	15.3	7	< 0.1
Eucalanus bungii - adult F	3	8.0	4	< 0.1
Calanus pacificus - adult F	1	15.3	2	< 0.1
Metridia pacifica - adult F	1	15.3	2	< 0.1
Neocalanus cristatus C-4	1	8.0	1	< 0.1
			61591	100.

STA. 078 56 59.2 N 155 58.1 W 08 May 86 16:11

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
220 35 - 45 87.3 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	102	512.0	5982	19.4
Neocalanus plumchrus C-5	57	512.0	3343	10.8
Other Copepoda - nauplius	50	512.0	2932	9.5
Metriididae C-2	43	512.0	2522	8.2
Pseudocalanus spp. - adult F	35	512.0	2053	6.7
Invertebrata - egg <5mm	29	512.0	1701	5.5
Pseudocalanus spp. - adult M	21	512.0	1232	4.0
Metriididae C-1	21	512.0	1232	4.0
?Pseudocalanus spp. C-3	20	512.0	1173	3.8
Metriididae C-3	19	512.0	1114	3.6
?Pseudocalanus spp. C-1	19	512.0	1114	3.6
?Pseudocalanus spp. C-2	17	512.0	997	3.2
Neocalanus plumchrus C-4	15	512.0	880	2.9
Pseudocalanus spp. C-4 M	14	512.0	821	2.7
Other Copepoda <2mm	13	512.0	762	2.5
Pseudocalanus spp. C-5 F	12	512.0	704	2.3
Pseudocalanus spp. C-4 F	10	512.0	586	1.9
Pseudocalanus spp. C-5 M	8	512.0	469	1.5
Larvacea	3	512.0	176	0.6
Euphausiacea - nauplius	3	512.0	176	0.6
Calanus marshallae C-2	44	30.1	152	0.5
Calanus marshallae C-3	35	30.1	121	0.4
Metridia pacifica C-4	28	30.1	97	0.3
Polychaeta <5mm	1	512.0	59	0.2
Hyperiidea <5mm	1	512.0	59	0.2
Cirripecta - nauplius <5mm	1	512.0	59	0.2
Neocalanus plumchrus C-3	17	30.1	59	0.2
Calanus marshallae C-1	16	30.1	55	0.2
Calanus marshallae C-4	11	30.1	38	0.1
Neocalanus plumchrus C-2	10	30.1	34	0.1
Unidentified Calanoida C-2	10	30.1	34	0.1
Chaetognatha 5-20mm	71	4.0	33	0.1
Calanus marshallae - adult F	4	30.1	14	< 0.1
Unidentified Calanoida C-3	4	30.1	14	< 0.1
Chaetognatha >20mm	18	4.0	8	< 0.1
Neocalanus cristatus C-4	17	4.0	8	< 0.1
Cnidaria - medusa >5mm	12	4.0	5	< 0.1
Euphausiacea - calyptopis 3	1	30.1	3	< 0.1
Metridia pacifica C-5 M	1	30.1	3	< 0.1
Eucalanus bungii - adult F	6	4.0	3	< 0.1
Thysanoessa inermis A&J	6	4.0	3	< 0.1
Euphausia pacifica A&J	4	4.0	2	< 0.1
Eucalanus bungii C-5 F	3	4.0	1	< 0.1
Thysanoessa longipes A&J	1	4.0	< 1	< 0.1
Eucalanus bungii - adult M	1	4.0	< 1	< 0.1
			30833	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
220 45 - 61 83.5 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	84	512.0	5151	26.5
Invertebrata - egg <5mm	39	512.0	2391	12.3
Pseudocalanus spp. - adult M	25	512.0	1533	7.9
Metriididae C-1	24	512.0	1472	7.6
Pseudocalanus spp. - adult F	21	512.0	1288	6.6
Neocalanus plumchrus C-5	94	102.4	1153	5.9
Other Copepoda <2mm	17	512.0	1042	5.4
Metriididae C-3	16	512.0	981	5.1
Metriididae C-2	15	512.0	920	4.7
Metridia pacifica C-4	59	102.4	724	3.7
Other Copepoda - nauplius	8	512.0	491	2.5
Metridia pacifica C-5 M	32	102.4	392	2.0
Neocalanus plumchrus C-4	23	102.4	282	1.5
Pseudocalanus spp. C-5 F	23	102.4	282	1.5
Pseudocalanus spp. C-5 M	16	102.4	196	1.0
?Pseudocalanus spp. C-1	3	512.0	184	0.9
Cirripecta - nauplius <5mm	3	512.0	184	0.9
Euphausiacea - nauplius	2	512.0	123	0.6
Pseudocalanus spp. C-4 F	6	102.4	74	0.4
?Pseudocalanus spp. C-2	1	512.0	61	0.3
Natantia - larva	1	512.0	61	0.3
Polychaeta <5mm	1	512.0	61	0.3
?Pseudocalanus spp. C-3	1	512.0	61	0.3
Calanus marshallae C-3	49	7.4	43	0.2
Calanus marshallae - adult F	38	7.4	34	0.2
Metridia pacifica - adult F	28	7.4	25	0.1
Acartia spp.	2	102.4	25	0.1
Metridia pacifica C-5 F	2	102.4	25	0.1
Pseudocalanus spp. C-4 M	2	102.4	25	0.1
Calanus marshallae C-4	26	7.4	23	0.1
Neocalanus cristatus C-4	39	4.0	19	0.1
Chaetognatha 5-20mm	30	4.0	14	0.1
Neocalanus plumchrus C-3	16	7.4	14	0.1
Calanus marshallae C-2	15	7.4	13	0.1
Chaetognatha >20mm	22	4.0	11	0.1
Thysanoessa inermis A&J	20	4.0	10	< 0.1
Cnidaria - medusa >5mm	19	4.0	9	< 0.1
Calanus marshallae C-5	7	7.4	6	< 0.1
Neocalanus plumchrus C-2	6	7.4	5	< 0.1
Calanus marshallae - adult M	5	7.4	4	< 0.1
Thysanoessa spinifera A&J	5	4.0	2	< 0.1
Euphausiacea - calyptopis 3	2	7.4	2	< 0.1
Euphausia pacifica A&J	2	4.0	1	< 0.1
Calanus marshallae C-1	1	7.4	1	< 0.1
Metridia spp. - adult F	1	7.4	1	< 0.1
Euphausiacea - furcilia	1	7.4	1	< 0.1
Eucalanus bungii - adult F	1	4.0	< 1	< 0.1

Eucalanus bungii - adult M	1	4.0	< 1	< 0.1
Neocalanus cristatus C-5	1	4.0	< 1	< 0.1
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		19420		100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
220 78 - 80 117.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	96	256.0	2090	26.9
Other Copepoda <2mm	42	256.0	914	11.8
Metridia pacifica C-5 M	31	256.0	675	8.7
Pseudocalanus spp. - adult F	22	256.0	479	6.2
Metriididae C-1	19	256.0	414	5.3
Pseudocalanus spp. - adult M	18	256.0	392	5.0
Metriididae C-2	17	256.0	370	4.8
Other Copepoda - nauplius	13	256.0	283	3.6
Neocalanus plumchrus C-5	54	51.2	235	3.0
Metridia pacifica C-4	53	51.2	231	3.0
Metriididae C-3	10	256.0	218	2.8
Metridia pacifica - adult F	50	51.2	218	2.8
Invertebrata - egg <5mm	10	256.0	218	2.8
Metridia pacifica C-5 F	10	256.0	218	2.8
Euphausiacea - nauplius	5	256.0	109	1.4
Other Copepoda damaged	5	256.0	109	1.4
Cirripedia - nauplius <5mm	4	256.0	87	1.1
Thecosomata <5mm	4	256.0	87	1.1
Neocalanus plumchrus C-4	19	51.2	83	1.1
Pseudocalanus spp. C-5 F	12	51.2	52	0.7
Pseudocalanus spp. C-5 M	10	51.2	44	0.6
?Pseudocalanus spp. C-1	2	256.0	44	0.6
Polychaeta <5mm	2	256.0	44	0.6
Larvacea	2	256.0	44	0.6
?Pseudocalanus spp. C-2	2	256.0	44	0.6
Chaetognatha 5-20mm	37	4.0	13	0.2
Pseudocalanus spp. C-4 F	18	6.9	11	0.1
Cnidaria - medusa >5mm	31	4.0	11	0.1
Chaetognatha >20mm	25	4.0	9	0.1
Calanus marshallae C-3	10	6.9	6	0.1
Pseudocalanus spp. C-4 M	7	6.9	4	0.1
Calanus marshallae C-4	7	6.9	4	0.1
Calanus marshallae - adult F	6	6.9	4	< 0.1
Calanus marshallae C-5	5	6.9	3	< 0.1
Calanus marshallae - adult M	4	6.9	2	< 0.1
Thysanoessa spinifera A&J	4	4.0	1	< 0.1
Neocalanus plumchrus C-4	2	6.9	1	< 0.1
Neocalanus plumchrus C-3	2	6.9	1	< 0.1
Calanus marshallae C-2	2	6.9	1	< 0.1
Euphausiacea - calyptopis 1	2	6.9	1	< 0.1
Neocalanus plumchrus C-2	2	6.9	1	< 0.1
Neocalanus cristatus C-4	3	4.0	1	< 0.1
Euphausiacea damaged	2	4.0	1	< 0.1
Euphausia pacifica A&J	2	4.0	1	< 0.1
Thysanoessa inermis A&J	2	4.0	1	< 0.1
Calanus marshallae C-1	1	6.9	1	< 0.1
Thysanoessa longipes A&J	1	4.0	< 1	< 0.1

Polychaeta >5mm	1	4.0	< 1	< 0.1
Eucalanus bungii - adult M	1	4.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	4.0	< 1	< 0.1
		7775		100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
220 98 - 101 161.2 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	100	256.0	1588	21.7
Neocalanus plumchrus C-5	70	256.0	1112	15.2
Other Copepoda <2mm	43	256.0	683	9.3
Metriididae C-1	32	256.0	508	7.0
Pseudocalanus spp. - adult F	31	256.0	492	6.7
Pseudocalanus spp. - adult M	25	256.0	397	5.4
Metriididae C-2	21	256.0	333	4.6
Metriididae C-3	17	256.0	270	3.7
Neocalanus plumchrus C-4	34	85.3	180	2.5
?Pseudocalanus spp. C-3	10	256.0	159	2.2
Metridia pacifica - adult F	28	85.3	148	2.0
Invertebrata - egg <5mm	8	256.0	127	1.7
Other Copepoda - nauplius	8	256.0	127	1.7
Metridia pacifica C-4	21	85.3	111	1.5
Metridia pacifica C-5 M	19	85.3	101	1.4
?Pseudocalanus spp. C-2	6	256.0	95	1.3
Pseudocalanus spp. C-4 M	18	85.3	95	1.3
Calanus marshallae C-3	18	85.3	95	1.3
Pseudocalanus spp. C-5 M	18	85.3	95	1.3
Pseudocalanus spp. C-5 F	16	85.3	85	1.2
Metridia pacifica C-5 F	12	85.3	63	0.9
Pseudocalanus spp. C-4 F	11	85.3	58	0.8
?Pseudocalanus spp. C-1	3	256.0	48	0.7
Euphausiacea - nauplius	3	256.0	48	0.7
Cirripedia - nauplius <5mm	2	256.0	32	0.4
Polychaeta <5mm	2	256.0	32	0.4
Calanus marshallae C-2	6	85.3	32	0.4
Calanus marshallae C-4	48	7.3	22	0.3
Thecosomata <5mm	1	256.0	16	0.2
Natantia - larva	1	256.0	16	0.2
Acartia spp.	1	256.0	16	0.2
Calanus marshallae C-1	3	85.3	16	0.2
Neocalanus plumchrus C-3	3	85.3	16	0.2
Neocalanus plumchrus C-2	2	85.3	11	0.1
Unidentified Calanoida C-2	2	85.3	11	0.1
Metridia spp. - adult F	2	85.3	11	0.1
Calanus marshallae - adult M	21	7.3	10	0.1
Chaetognatha >20mm	34	4.0	8	0.1
Neocalanus cristatus C-4	33	4.0	8	0.1
Calanus marshallae - adult F	13	7.3	6	0.1
Calanus marshallae C-5	12	7.3	5	0.1
Metridia pacifica - adult M	1	85.3	5	0.1
Neocalanus plumchrus C-1	1	85.3	5	0.1
Chaetognatha 5-20mm	21	4.0	5	0.1
Cnidaria - medusa >5mm	16	4.0	4	0.1
Neocalanus cristatus C-5	15	4.0	4	0.1
Eucalanus bungii C-5 F	3	4.0	1	< 0.1

Thysanoessa inermis A&J	3	4.0	1	< 0.1
Euphausiacea A&J damaged	3	4.0	1	< 0.1
Calanus pacificus C-5	1	7.3	< 1	< 0.1
Eucalanus bungii - adult M	1	4.0	< 1	< 0.1
Thysanoessa spinifera A&J	1	4.0	< 1	< 0.1
Eucalanus bungii - adult F	1	4.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	4.0	< 1	< 0.1
Hyperiidia >5mm	1	4.0	< 1	< 0.1
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			7312	100.

STA. 078 56 59.2 N 155 58.1 W 08 May 86 16:11

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
220 101 - 200 977.3 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	66	512.0	346	17.7
Oithona spp.	58	512.0	304	15.6
Metriididae C-1	57	512.0	299	15.3
Metriididae C-2	40	512.0	210	10.7
Pseudocalanus spp. - adult F	34	512.0	178	9.1
Other Copepoda - nauplius	25	512.0	131	6.7
Metriididae C-3	25	512.0	131	6.7
Metridia pacifica - adult F	33	256.0	86	4.4
Metridia pacifica C-4	24	256.0	63	3.2
Metridia pacifica C-5 F	16	256.0	42	2.1
Metridia pacifica C-5 M	11	256.0	29	1.5
Pseudocalanus spp. - adult M	5	512.0	26	1.3
Other Copepoda 2-5mm	4	512.0	21	1.1
Invertebrata - egg <5mm	4	512.0	21	1.1
Neocalanus plumchrus C-5	44	28.4	13	0.7
Polychaeta <5mm	2	512.0	10	0.5
Anomura - larva	1	512.0	5	0.3
?Pseudocalanus spp. C-1	1	512.0	5	0.3
Cirripedia - nauplius <5mm	1	512.0	5	0.3
Pseudocalanus spp. C-5 F	34	10.2	4	0.2
Neocalanus plumchrus C-4	32	10.2	3	0.2
Neocalanus cristatus C-4	40	8.0	3	0.2
Chaetognatha 5-20mm	34	8.0	3	0.1
Metridia pacifica - adult M	1	256.0	3	0.1
Pseudocalanus spp. C-5 M	25	10.2	3	0.1
Calanus marshallae - adult M	15	10.2	2	0.1
Calanus marshallae - adult F	10	10.2	1	0.1
Neocalanus cristatus C-5	12	8.0	1	0.1
Calanus marshallae C-5	9	10.2	1	< 0.1
Acartia spp.	9	10.2	1	< 0.1
Calanus marshallae C-4	7	10.2	1	< 0.1
Pseudocalanus spp. C-4 M	7	10.2	1	< 0.1
Pseudocalanus spp. C-4 F	6	10.2	1	< 0.1
Hyperiididae >5mm	7	8.0	1	< 0.1
Other Copepoda >5mm	6	8.0	< 1	< 0.1
Euphausiacea - calyptopis 2	4	10.2	< 1	< 0.1
Calanus marshallae C-3	4	10.2	< 1	< 0.1
Neocalanus plumchrus C-3	3	10.2	< 1	< 0.1
Metridia spp. - adult F	2	10.2	< 1	< 0.1
Euphausiacea - calyptopis 1	2	10.2	< 1	< 0.1
Chaetognatha >20mm	2	8.0	< 1	< 0.1
Siphonophora >5mm	2	8.0	< 1	< 0.1
Metridia spp. - adult M	1	10.2	< 1	< 0.1
Euphausiacea - calyptopis 3	1	10.2	< 1	< 0.1
Cnidaria - medusa >5mm	1	8.0	< 1	< 0.1
Mysidacea >5mm	1	8.0	< 1	< 0.1

1954 100.

STA. 079 57 00.9 N 155 57.3 W 08 May 86 22:35

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
227 2 - 14 223.5 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	70	4096.0	12830	20.7
Euphausiacea - nauplius	48	4096.0	8798	14.2
Other Copepoda - nauplius	32	4096.0	5865	9.4
?Pseudocalanus spp. C-2	27	4096.0	4949	8.0
?Pseudocalanus spp. C-3	25	4096.0	4582	7.4
Pseudocalanus spp. C-4 M	19	4096.0	3483	5.6
Pseudocalanus spp. C-5 F	16	4096.0	2933	4.7
Acartia spp.	45	1365.3	2749	4.4
Pseudocalanus spp. - adult M	14	4096.0	2566	4.1
Pseudocalanus spp. C-5 M	13	4096.0	2383	3.8
?Pseudocalanus spp. C-1	12	4096.0	2199	3.5
Pseudocalanus spp. C-4 F	12	4096.0	2199	3.5
Pseudocalanus spp. - adult F	11	4096.0	2016	3.2
Invertebrata - egg <5mm	11	4096.0	2016	3.2
Cirripedia - nauplius <5mm	4	4096.0	733	1.2
Other Copepoda <2mm	2	4096.0	367	0.6
Hyperiidia <5mm	2	4096.0	367	0.6
Larvacea	2	4096.0	367	0.6
Polychaeta <5mm	1	4096.0	183	0.3
Calanus marshallae C-2	59	61.1	161	0.3
Calanus marshallae C-3	34	61.1	93	0.1
Neocalanus plumchrus C-4	89	21.0	84	0.1
Calanus marshallae C-1	19	61.1	52	0.1
Euphausiacea - calyptopis 1	29	21.0	27	< 0.1
Calanus marshallae C-4	26	21.0	24	< 0.1
Neocalanus plumchrus C-3	6	61.1	16	< 0.1
Neocalanus plumchrus C-5	12	21.0	11	< 0.1
Euphausiacea - calyptopis 2	11	21.0	10	< 0.1
Calanus marshallae C-5	6	21.0	6	< 0.1
Neocalanus plumchrus C-2	2	61.1	5	< 0.1
Chaetognatha 5-20mm	51	2.0	5	< 0.1
Euphausiacea - calyptopis 3	4	21.0	4	< 0.1
Cnidaria - medusa >5mm	32	2.0	3	< 0.1
Unidentified Calanoida C-2	1	61.1	3	< 0.1
Euphausiacea - furcilia	2	21.0	2	< 0.1
			62092	100.

STA. 079 57 00.9 N 155 57.3 W 08 May 86 22:35

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
227 15 - 30 206.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	93	2048.0	9203	26.9
Invertebrata - egg <5mm	45	2048.0	4453	13.0
Other Copepoda - nauplius	41	2048.0	4057	11.9
Euphausiacea - nauplius	26	2048.0	2573	7.5
?Pseudocalanus spp. C-2	21	2048.0	2078	6.1
?Pseudocalanus spp. C-1	21	2048.0	2078	6.1
?Pseudocalanus spp. C-3	18	2048.0	1781	5.2
Pseudocalanus spp. C-5 M	27	1024.0	1336	3.9
Pseudocalanus spp. - adult F	26	1024.0	1286	3.8
Pseudocalanus spp. C-4 M	22	1024.0	1089	3.2
Acartia spp.	20	1024.0	990	2.9
Pseudocalanus spp. C-5 F	20	1024.0	990	2.9
Pseudocalanus spp. C-4 F	15	1024.0	742	2.2
Pseudocalanus spp. - adult M	13	1024.0	643	1.9
Cirripecta - nauplius <5mm	2	2048.0	198	0.6
Cirripecta - cypris <5mm	2	2048.0	198	0.6
Polychaeta <5mm	1	2048.0	99	0.3
Calanus marshallae C-2	52	31.0	78	0.2
Neocalanus plumchrus C-4	44	31.0	66	0.2
Neocalanus plumchrus C-5	38	31.0	57	0.2
Calanus marshallae C-1	35	31.0	52	0.2
Calanus marshallae C-3	29	31.0	43	0.1
Calanus marshallae C-4	54	6.4	17	< 0.1
Euphausiacea - calyptopis 1	11	31.0	16	< 0.1
Chaetognatha 5-20mm	85	4.0	16	< 0.1
Neocalanus plumchrus C-3	7	31.0	10	< 0.1
Euphausiacea - calyptopis 2	6	31.0	9	< 0.1
Cnidaria - medusa >5mm	35	4.0	7	< 0.1
Euphausiacea - calyptopis 3	4	31.0	6	< 0.1
Euphausiacea - furcilia	2	31.0	3	< 0.1
Neocalanus plumchrus C-2	1	31.0	1	< 0.1
Eucalanus bungii - adult F	7	4.0	1	< 0.1
Calanus marshallae - adult F	3	6.4	1	< 0.1
Calanus marshallae C-5	3	6.4	1	< 0.1
Chaetognatha >20mm	2	4.0	< 1	< 0.1
Calanus pacificus C-5	1	6.4	< 1	< 0.1
			34182	100.

STA. 079 57 00.9 N 155 57.3 W 08 May 86 22:35

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
227 30 - 47 215.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	98	1024.0	4647	20.1
Neocalanus plumchrus C-5	45	1024.0	2134	9.2
Other Copepoda - nauplius	41	1024.0	1944	8.4
Invertebrata - egg <5mm	36	1024.0	1707	7.4
Pseudocalanus spp. - adult M	32	1024.0	1517	6.6
Metriididae C-2	30	1024.0	1423	6.2
Pseudocalanus spp. - adult F	27	1024.0	1280	5.5
?Pseudocalanus spp. C-3	19	1024.0	901	3.9
?Pseudocalanus spp. C-2	17	1024.0	806	3.5
Neocalanus plumchrus C-4	31	512.0	735	3.2
Pseudocalanus spp. C-5 M	15	1024.0	711	3.1
Metriididae C-3	14	1024.0	664	2.9
?Pseudocalanus spp. C-1	13	1024.0	616	2.7
Pseudocalanus spp. C-5 F	13	1024.0	616	2.7
Metriididae C-1	12	1024.0	569	2.5
Euphausiacea - nauplius	11	1024.0	522	2.3
Pseudocalanus spp. C-4 M	22	512.0	522	2.3
Pseudocalanus spp. C-4 F	20	512.0	474	2.1
Other Copepoda <2mm	7	1024.0	332	1.4
Calanus marshallae C-2	12	512.0	285	1.2
Calanus marshallae C-3	6	512.0	142	0.6
Calanus pacificus C-4	4	512.0	95	0.4
Calanus marshallae C-1	4	512.0	95	0.4
Neocalanus plumchrus C-3	3	512.0	71	0.3
Metridia pacifica C-4	82	15.5	59	0.3
Unidentified Calanoida C-2	2	512.0	47	0.2
Calanus marshallae C-4	62	15.5	45	0.2
Acartia spp.	49	15.5	35	0.2
Unidentified Calanoida C-3	1	512.0	24	0.1
Unidentified Calanoida C-1	1	512.0	24	0.1
Chaetognatha 5-20mm	58	8.0	21	0.1
Calanus marshallae C-5	13	15.5	9	< 0.1
Calanus marshallae - adult F	12	15.5	9	< 0.1
Neocalanus cristatus C-4	21	8.0	8	< 0.1
Chaetognatha >20mm	11	8.0	4	< 0.1
Cnidaria - medusa >5mm	8	8.0	3	< 0.1
Euphausiacea - calyptopis 1	4	15.5	3	< 0.1
Euphausiacea - calyptopis 3	4	15.5	3	< 0.1
Euphausiacea - calyptopis 2	3	15.5	2	< 0.1
Eucalanus bungii - adult F	4	8.0	1	< 0.1
Metridia pacifica C-5 M	2	15.5	1	< 0.1
Calanus marshallae - adult M	2	15.5	1	< 0.1
Eucalanus bungii - adult M	2	8.0	1	< 0.1
Eucalanus bungii C-5 F	2	8.0	1	< 0.1
			23111	100.

STA. 079 57 00.9 N 155 57.3 W 08 May 86 22:35

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
227 46 - 80 356.8 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	91	1024.0	2612	25.7
Neocalanus plumchrus C-5	42	1024.0	1205	11.9
Pseudocalanus spp. - adult F	31	1024.0	890	8.8
Metriididae C-2	28	1024.0	804	7.9
Pseudocalanus spp. - adult M	27	1024.0	775	7.6
Other Copepoda <2mm	19	1024.0	545	5.4
Metriididae C-1	17	1024.0	488	4.8
Metriididae C-3	17	1024.0	488	4.8
Invertebrata - egg <5mm	16	1024.0	459	4.5
Pseudocalanus spp. C-5 F	11	1024.0	316	3.1
Other Copepoda - nauplius	10	1024.0	287	2.8
Metridia pacifica C-4	82	113.8	262	2.6
Pseudocalanus spp. C-5 M	7	1024.0	201	2.0
Neocalanus plumchrus C-4	6	1024.0	172	1.7
?Pseudocalanus spp. C-3	5	1024.0	143	1.4
Calanus marshallae C-3	20	113.8	64	0.6
Pseudocalanus spp. C-4 M	2	1024.0	57	0.6
Pseudocalanus spp. C-4 F	2	1024.0	57	0.6
Metridia pacifica C-5 M	16	113.8	51	0.5
?Pseudocalanus spp. C-2	1	1024.0	29	0.3
Cirripedia - nauplius <5mm	1	1024.0	29	0.3
Foraminifera <5mm	1	1024.0	29	0.3
Gammaridea <5mm	1	1024.0	29	0.3
Hyperidea <5mm	1	1024.0	29	0.3
Calanus marshallae - adult F	38	25.0	27	0.3
Chaetognatha 5-20mm	50	16.0	22	0.2
Calanus marshallae C-2	5	113.8	16	0.2
Neocalanus plumchrus C-3	4	113.8	13	0.1
Neocalanus cristatus C-4	27	16.0	12	0.1
Unidentified Calanoida C-3	3	113.8	10	0.1
Calanus marshallae C-1	2	113.8	6	0.1
Calanus marshallae C-5	9	25.0	6	0.1
Calanus marshallae C-4	8	25.0	6	0.1
Thysanoessa inermis A&J	7	16.0	3	< 0.1
Cnidaria - medusa >5mm	7	16.0	3	< 0.1
Chaetognatha >20mm	6	16.0	3	< 0.1
Calanus marshallae - adult M	3	25.0	2	< 0.1
Neocalanus cristatus C-5	3	16.0	1	< 0.1
Eucalanus bungii C-5 F	2	16.0	1	< 0.1
Euphausia pacifica A&J	1	16.0	< 1	< 0.1
			10151	100.

STA. 079 57 00.9 N 155 57.3 W 08 May 86 22:35

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
227 79 - 99 173.7 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	130	256.0	1916	25.9
Other Copepoda <2mm	57	256.0	840	11.4
Other Copepoda - nauplius	46	256.0	678	9.2
Pseudocalanus spp. - adult F	40	256.0	589	8.0
Metriididae C-2	31	256.0	457	6.2
Invertebrata - egg <5mm	29	256.0	427	5.8
Metridia pacifica C-5 M	25	256.0	368	5.0
Pseudocalanus spp. - adult M	20	256.0	295	4.0
Metriididae C-1	17	256.0	251	3.4
Metriididae C-3	16	256.0	236	3.2
Neocalanus plumchrus C-5	78	51.2	230	3.1
Metridia pacifica C-4	64	51.2	189	2.5
Larvacea	11	256.0	162	2.2
?Pseudocalanus spp. C-1	10	256.0	147	2.0
Neocalanus plumchrus C-4	33	51.2	97	1.3
Metridia pacifica C-5 F	6	256.0	88	1.2
Pseudocalanus spp. C-5 F	21	51.2	62	0.8
?Pseudocalanus spp. C-2	4	256.0	59	0.8
?Pseudocalanus spp. C-3	4	256.0	59	0.8
Metridia pacifica - adult F	136	6.9	54	0.7
Pseudocalanus spp. C-5 M	16	51.2	47	0.6
Calanus marshallae C-3	50	6.9	20	0.3
Calanus marshallae - adult F	41	6.9	16	0.2
Thecosomata <5mm	1	256.0	15	0.2
Foraminifera <5mm	1	256.0	15	0.2
Calanus marshallae - adult M	34	6.9	14	0.2
Neocalanus cristatus C-4	51	4.0	12	0.2
Chaetognatha 5-20mm	43	4.0	10	0.1
Calanus marshallae C-4	16	6.9	6	0.1
Calanus marshallae C-5	14	6.9	6	0.1
Chaetognatha >20mm	23	4.0	5	0.1
Neocalanus cristatus C-5	23	4.0	5	0.1
Pseudocalanus spp. C-4 M	11	6.9	4	0.1
Calanus marshallae C-2	9	6.9	4	< 0.1
Pseudocalanus spp. C-4 F	8	6.9	3	< 0.1
Neocalanus plumchrus C-2	4	6.9	2	< 0.1
Neocalanus plumchrus C-3	4	6.9	2	< 0.1
Neocalanus plumchrus C-1	3	6.9	1	< 0.1
Thysanoessa inermis A&J	5	4.0	1	< 0.1
Euphausiacea A&J damaged	4	4.0	1	< 0.1
Acartia spp.	2	6.9	1	< 0.1
Neocalanus plumchrus C-3	2	6.9	1	< 0.1
Metridia pacifica - adult M	2	6.9	1	< 0.1
Thysanoessa spinifera A&J	3	4.0	1	< 0.1
Euphausiacea - calyptopis 3	1	6.9	< 1	< 0.1
Neocalanus cristatus C-2	1	6.9	< 1	< 0.1
Calanus marshallae C-1	1	6.9	< 1	< 0.1

Neocalanus cristatus C-3	1	6.9	< 1	< 0.1
Euphausia pacifica A&J	1	4.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	4.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	4.0	< 1	< 0.1
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		7398		100.

STA. 079 57 00.9 N 155 57.3 W 08 May 86 22:35

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
227 99 - 148 354.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	178	256.0	1284	22.7
Other Copepoda - nauplius	111	256.0	801	14.2
Other Copepoda <2mm	94	256.0	678	12.0
Pseudocalanus spp. - adult F	81	256.0	584	10.4
Metriididae C-2	59	256.0	426	7.5
Metridia pacifica - adult F	41	256.0	296	5.2
Metridia pacifica C-5 F	34	256.0	245	4.3
Metriididae C-1	34	256.0	245	4.3
Metriididae C-3	30	256.0	216	3.8
Metridia pacifica C-5 M	27	256.0	195	3.5
Metridia pacifica C-4	22	256.0	159	2.8
Pseudocalanus spp. - adult M	20	256.0	144	2.6
Neocalanus plumchrus C-5	43	51.2	62	1.1
Metridia spp. - adult F	6	256.0	43	0.8
Foraminifera <5mm	6	256.0	43	0.8
Polychaeta <5mm	4	256.0	29	0.5
Pseudocalanus spp. C-5 F	15	51.2	22	0.4
Natantia - larva	2	256.0	14	0.3
Invertebrata - egg <5mm	2	256.0	14	0.3
Thecosomata <5mm	2	256.0	14	0.3
Other Copepoda >5mm	45	8.0	10	0.2
Neocalanus cristatus C-4	43	8.0	10	0.2
Pseudocalanus spp. C-5 M	6	51.2	9	0.2
Neocalanus plumchrus C-4	24	12.2	8	0.1
Gymnosomata <5mm	1	256.0	7	0.1
Hyperiididae <5mm	1	256.0	7	0.1
Ostracoda <5mm	1	256.0	7	0.1
Cirripedia - cypris <5mm	1	256.0	7	0.1
Cladocera <5mm	1	256.0	7	0.1
Other Copepoda 2-5mm	1	256.0	7	0.1
Cirripedia - nauplius <5mm	1	256.0	7	0.1
Calanus marshallae - adult M	20	12.2	7	0.1
Calanus marshallae - adult F	15	12.2	5	0.1
Chaetognatha 5-20mm	20	8.0	5	0.1
Euphausiacea - nauplius	3	51.2	4	0.1
Pseudocalanus spp. C-4 F	3	51.2	4	0.1
Calanus marshallae C-5	11	12.2	4	0.1
Neocalanus cristatus C-5	14	8.0	3	0.1
Pseudocalanus spp. C-4 M	2	51.2	3	0.1
Hyperiididae >5mm	7	8.0	2	< 0.1
Calanus marshallae C-4	4	12.2	1	< 0.1
Chaetognatha >20mm	5	8.0	1	< 0.1
Unidentified Calanoida C-3	3	12.2	1	< 0.1
Calanus marshallae C-3	2	12.2	1	< 0.1
Thysanoessa spinifera A&J	2	8.0	< 1	< 0.1
Unidentified Calanoida C-2	1	12.2	< 1	< 0.1
Eucalanus bungii - adult F	1	8.0	< 1	< 0.1

Euphausia pacifica A&J

1	8.0	< 1	< 0.1
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	5644	100.	

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
227 149 - 199 283.5 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	169	256.0	1526	22.3
Oithona spp.	106	256.0	957	14.0
Metridia pacifica - adult F	71	256.0	641	9.4
Pseudocalanus spp. - adult F	68	256.0	614	9.0
Metriididae C-2	58	256.0	524	7.7
Metriididae C-3	56	256.0	506	7.4
Metridia pacifica C-4	40	256.0	361	5.3
Other Copepoda - nauplius	36	256.0	325	4.8
Metriididae C-1	25	256.0	226	3.3
Foraminifera <5mm	24	256.0	217	3.2
Metridia pacifica C-5 M	19	256.0	172	2.5
Metridia pacifica C-5 F	19	256.0	172	2.5
Pseudocalanus spp. - adult M	12	256.0	108	1.6
Metridia spp. - adult F	11	256.0	99	1.5
Neocalanus plumchrus C-5	67	28.4	67	1.0
Larvacea	7	256.0	63	0.9
Metridia pacifica - adult M	6	256.0	54	0.8
Polychaeta <5mm	3	256.0	27	0.4
Other Copepoda 2-5mm	2	256.0	18	0.3
Metridia spp. C-5 F	2	256.0	18	0.3
Ostracoda <5mm	2	256.0	18	0.3
Neocalanus cristatus C-4	38	8.0	11	0.2
Chaetognatha 5-20mm	38	8.0	11	0.2
Gastropoda <5mm	1	256.0	9	0.1
Cirripedia - nauplius <5mm	1	256.0	9	0.1
Other Copepoda >5mm	32	8.0	9	0.1
Thecosomata <5mm	1	256.0	9	0.1
Mysidacea <5mm	1	256.0	9	0.1
Metridia spp. C-5 M	1	256.0	9	0.1
Calanus marshallae - adult M	22	10.2	8	0.1
Pseudocalanus spp. C-5 F	21	10.2	8	0.1
Pseudocalanus spp. C-5 M	20	10.2	7	0.1
Pseudocalanus spp. C-4 F	10	10.2	4	0.1
Euphausiacea - nauplius	9	10.2	3	< 0.1
Hyperiididae >5mm	11	8.0	3	< 0.1
Calanus marshallae - adult F	8	10.2	3	< 0.1
Neocalanus cristatus C-5	9	8.0	3	< 0.1
Neocalanus plumchrus C-4	6	10.2	2	< 0.1
Acartia spp.	4	10.2	1	< 0.1
Calanus marshallae C-5	4	10.2	1	< 0.1
Pseudocalanus spp. C-4 M	4	10.2	1	< 0.1
Chaetognatha >20mm	4	8.0	1	< 0.1
Siphonophora >5mm	4	8.0	1	< 0.1
Gammaridea >5mm	3	8.0	1	< 0.1
Calanus marshallae C-4	2	10.2	1	< 0.1
Calanus marshallae C-1	2	10.2	1	< 0.1
Calanus marshallae C-3	2	10.2	1	< 0.1

Eucalanus bungii - adult M	2	8.0	1	< 0.1
Eucalanus bungii - adult F	2	8.0	1	< 0.1
Calanus marshallae C-2	1	10.2	< 1	< 0.1
Euphausiacea - calyptopis 2	1	10.2	< 1	< 0.1
Euphausiacea - calyptopis 1	1	10.2	< 1	< 0.1
Mysidacea >5mm	1	8.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	8.0	< 1	< 0.1
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			6840	100.

STA. 080 57 00.9 N 155 58.2 W 09 May 86 4:31

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
235 2 - 13 109.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	88	1024.0	8199	17.8
Other Copepoda - nauplius	81	1024.0	7547	16.4
?Pseudocalanus spp. C-3	46	1024.0	4286	9.3
Pseudocalanus spp. C-5 M	39	1024.0	3634	7.9
?Pseudocalanus spp. C-2	36	1024.0	3354	7.3
Pseudocalanus spp. - adult F	34	1024.0	3168	6.9
Pseudocalanus spp. C-4 M	25	1024.0	2329	5.1
?Pseudocalanus spp. C-1	24	1024.0	2236	4.9
Pseudocalanus spp. C-5 F	23	1024.0	2143	4.7
Pseudocalanus spp. - adult M	19	1024.0	1770	3.8
Invertebrata - egg <5mm	19	1024.0	1770	3.8
Euphausiacea - nauplius	18	1024.0	1677	3.6
Pseudocalanus spp. C-4 F	16	1024.0	1491	3.2
Acartia spp.	268	31.0	756	1.6
Cirripedia - nauplius <5mm	4	1024.0	373	0.8
Neocalanus plumchrus C-5	108	31.0	305	0.7
Other Copepoda <2mm	3	1024.0	280	0.6
Neocalanus plumchrus C-4	50	31.0	141	0.3
Calanus marshallae C-2	34	31.0	96	0.2
Larvacea	1	1024.0	93	0.2
Cirripedia - cypris <5mm	1	1024.0	93	0.2
Metridiidae C-2	1	1024.0	93	0.2
Calanus marshallae C-1	30	31.0	85	0.2
Calanus marshallae C-3	12	31.0	34	0.1
Neocalanus plumchrus C-3	8	31.0	23	< 0.1
Euphausiacea - calyptopis 1	30	6.4	17	< 0.1
Unidentified Calanoida C-3	3	31.0	8	< 0.1
Metridia pacifica - adult F	10	6.4	6	< 0.1
Calanus marshallae C-4	25	2.5	6	< 0.1
Unidentified Calanoida C-3	2	31.0	6	< 0.1
Euphausiacea - calyptopis 3	9	6.4	5	< 0.1
Euphausiacea - calyptopis 2	8	6.4	5	< 0.1
Metridia pacifica C-4	6	6.4	3	< 0.1
Metridia pacifica C-5 M	5	6.4	3	< 0.1
Metridia pacifica C-5 F	5	6.4	3	< 0.1
Cnidaria - medusa >5mm	15	2.0	3	< 0.1
Chaetognatha 5-20mm	11	2.0	2	< 0.1
Metridia pacifica - adult M	2	6.4	1	< 0.1
Calanus marshallae C-5	5	2.5	1	< 0.1
Calanus marshallae - adult F	4	2.5	1	< 0.1
Euphausiacea - furcilia	3	2.5	1	< 0.1
Metridia spp. - adult F	1	6.4	1	< 0.1
Calanus pacificus - adult F	1	2.5	< 1	< 0.1
Calanus marshallae - adult M	1	2.5	< 1	< 0.1
Neocalanus cristatus C-5	1	2.0	< 1	< 0.1
Hyperiidia >5mm	1	2.0	< 1	< 0.1

46049

100.

STA. 080 57 00.9 N 155 58.2 W 09 May 86 4:31

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
235 13 - 28 120.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	349	1024.0	29623	32.0
Euphausiacea - nauplius	106	1024.0	8997	9.7
Other Copepoda - nauplius	100	1024.0	8488	9.2
?Pseudocalanus spp. C-2	86	1024.0	7300	7.9
?Pseudocalanus spp. C-1	78	1024.0	6621	7.2
?Pseudocalanus spp. C-3	64	1024.0	5432	5.9
Invertebrata - egg <5mm	47	1024.0	3989	4.3
Pseudocalanus spp. - adult F	45	1024.0	3820	4.1
Neocalanus plumchrus C-5	30	1024.0	2546	2.8
Pseudocalanus spp. C-4 M	27	1024.0	2292	2.5
Pseudocalanus spp. C-5 M	27	1024.0	2292	2.5
Pseudocalanus spp. C-4 F	27	1024.0	2292	2.5
Pseudocalanus spp. - adult M	20	1024.0	1698	1.8
Pseudocalanus spp. C-5 F	16	1024.0	1358	1.5
Neocalanus plumchrus C-4	31	341.3	877	0.9
Cirripedia - nauplius <5mm	10	1024.0	849	0.9
Larvacea	9	1024.0	764	0.8
Calanus marshallae C-1	22	341.3	622	0.7
Other Copepoda <2mm	7	1024.0	594	0.6
Calanus marshallae C-2	15	341.3	424	0.5
Acartia spp.	34	146.3	412	0.4
Calanus marshallae C-3	11	341.3	311	0.3
Polychaeta <5mm	3	1024.0	255	0.3
Chaetognatha <5mm	2	1024.0	170	0.2
Echinodermata <5mm	2	1024.0	170	0.2
Cirripedia - cypris <5mm	1	1024.0	85	0.1
Chaetognatha 5-20mm	84	8.0	56	0.1
Calanus marshallae C-4	32	14.4	38	< 0.1
Cnidaria - medusa >5mm	51	8.0	34	< 0.1
Metriididae C-2	1	341.3	28	< 0.1
Metriididae C-3	1	341.3	28	< 0.1
Euphausiacea - calyptopis 1	17	14.4	20	< 0.1
Calanus marshallae - adult F	10	14.4	12	< 0.1
Calanus marshallae C-5	7	14.4	8	< 0.1
Eucalanus bungii - adult F	9	8.0	6	< 0.1
Euphausiacea - calyptopis 3	5	14.4	6	< 0.1
Euphausiacea - calyptopis 2	3	14.4	4	< 0.1
Chaetognatha >20mm	5	8.0	3	< 0.1
			92525	100.

STA. 080 57 00.9 N 155 58.2 W 09 May 86 4:31

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
235 29 - 45 152.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	271	1024.0	18152	32.6
Euphausiacea - nauplius	68	1024.0	4555	8.2
?Pseudocalanus spp. C-1	68	1024.0	4555	8.2
Other Copepoda - nauplius	63	1024.0	4220	7.6
?Pseudocalanus spp. C-2	59	1024.0	3952	7.1
Pseudocalanus spp. - adult F	37	1024.0	2478	4.4
Neocalanus plumchrus C-5	36	1024.0	2411	4.3
?Pseudocalanus spp. C-3	36	1024.0	2411	4.3
Pseudocalanus spp. C-4 M	26	1024.0	1741	3.1
Invertebrata - egg <5mm	25	1024.0	1675	3.0
Pseudocalanus spp. - adult M	24	1024.0	1608	2.9
Pseudocalanus spp. C-5 F	21	1024.0	1407	2.5
Pseudocalanus spp. C-4 F	20	1024.0	1340	2.4
Pseudocalanus spp. C-5 M	15	1024.0	1005	1.8
Larvacea	12	1024.0	804	1.4
Calanus marshallae C-1	26	341.3	580	1.0
Other Copepoda <2mm	7	1024.0	469	0.8
Neocalanus plumchrus C-4	46	146.3	440	0.8
Hyperiididae <5mm	4	1024.0	268	0.5
Metriididae C-2	4	1024.0	268	0.5
Calanus marshallae C-3	12	341.3	268	0.5
Calanus marshallae C-2	8	341.3	179	0.3
Polychaeta <5mm	2	1024.0	134	0.2
Metriididae C-3	2	1024.0	134	0.2
Cirripedia - nauplius <5mm	2	1024.0	134	0.2
Neocalanus plumchrus C-3	4	341.3	89	0.2
Cirripedia - cypris <5mm	1	1024.0	67	0.1
Foraminifera <5mm	1	1024.0	67	0.1
Chaetognatha <5mm	1	1024.0	67	0.1
Metriididae C-1	1	1024.0	67	0.1
Acartia spp.	55	14.4	52	0.1
Chaetognatha 5-20mm	68	8.0	36	0.1
Calanus marshallae - adult F	32	14.4	30	0.1
Neocalanus plumchrus C-1	1	341.3	22	< 0.1
Calanus marshallae C-4	16	14.4	15	< 0.1
Metridia pacifica C-4	13	14.4	12	< 0.1
Calanus marshallae C-5	8	14.4	8	< 0.1
Euphausiacea - calyptopis 1	7	14.4	7	< 0.1
Chaetognatha >20mm	12	8.0	6	< 0.1
Cnidaria - medusa >5mm	11	8.0	6	< 0.1
Neocalanus cristatus C-5	11	8.0	6	< 0.1
Calanus marshallae - adult M	4	14.4	4	< 0.1
Euphausiacea - calyptopis 2	4	14.4	4	< 0.1
Neocalanus cristatus C-4	3	8.0	2	< 0.1
Eucalanus bungii - adult F	2	8.0	1	< 0.1
			55752	100.

STA. 080 57 00.9 N 155 58.2 W 09 May 86 4:31

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
235 46 - 59 174.3 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	157	512.0	4611	33.1
Other Copepoda - nauplius	73	512.0	2144	15.4
Pseudocalanus spp. - adult M	39	512.0	1145	8.2
Pseudocalanus spp. - adult F	33	512.0	969	7.0
Metriididae C-2	24	512.0	705	5.1
Other Copepoda <2mm	21	512.0	617	4.4
Neocalanus plumchrus C-5	59	170.7	578	4.2
?Pseudocalanus spp. C-3	11	512.0	323	2.3
?Pseudocalanus spp. C-2	11	512.0	323	2.3
Pseudocalanus spp. C-5 F	31	170.7	304	2.2
?Pseudocalanus spp. C-1	10	512.0	294	2.1
Invertebrata - egg <5mm	8	512.0	235	1.7
Metriididae C-3	8	512.0	235	1.7
Pseudocalanus spp. C-4 F	23	170.7	225	1.6
Metridia pacifica C-4	48	73.1	201	1.4
Pseudocalanus spp. C-5 M	16	170.7	157	1.1
Pseudocalanus spp. C-4 M	15	170.7	147	1.1
Metriididae C-1	5	512.0	147	1.1
Neocalanus plumchrus C-4	35	73.1	147	1.1
Euphausiacea - nauplius	2	512.0	59	0.4
Neocalanus plumchrus C-3	11	73.1	46	0.3
Calanus marshallae C-2	8	73.1	34	0.2
Chaetognatha <5mm	1	512.0	29	0.2
Cirripedia - nauplius <5mm	1	512.0	29	0.2
Thecosomata <5mm	1	512.0	29	0.2
Calanus marshallae C-1	7	73.1	29	0.2
Calanus marshallae C-3	6	73.1	25	0.2
Calanus marshallae - adult F	30	13.1	23	0.2
Neocalanus cristatus C-4	40	8.0	18	0.1
Chaetognatha 5-20mm	40	8.0	18	0.1
Unidentified Calanoida C-2	3	73.1	13	0.1
Neocalanus cristatus C-5	26	8.0	12	0.1
Metridia pacifica - adult F	1	170.7	10	0.1
Calanus marshallae C-4	13	13.1	10	0.1
Neocalanus plumchrus C-2	2	73.1	8	0.1
Chaetognatha >20mm	9	8.0	4	< 0.1
Calanus marshallae - adult M	4	13.1	3	< 0.1
Thysanoessa inermis A&J	6	8.0	3	< 0.1
Euphausiacea A&J damaged	5	8.0	2	< 0.1
Calanus marshallae C-5	3	13.1	2	< 0.1
Other Copepoda >5mm	2	8.0	1	< 0.1
Metridia pacifica C-5 M	1	13.1	1	< 0.1
			13914	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
235 60 - 79 160.5 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	146	512.0	4658	25.9
Other Copepoda <2mm	90	512.0	2871	16.0
Other Copepoda - nauplius	79	512.0	2520	14.0
Pseudocalanus spp. - adult F	40	512.0	1276	7.1
Metriididae C-2	35	512.0	1117	6.2
Pseudocalanus spp. - adult M	35	512.0	1117	6.2
Metriididae C-1	28	512.0	893	5.0
Larvacea	25	512.0	798	4.4
Metriididae C-3	20	512.0	638	3.5
Invertebrata - egg <5mm	15	512.0	479	2.7
Metridia pacifica C-5 M	82	56.9	291	1.6
?Pseudocalanus spp. C-1	6	512.0	191	1.1
Foraminifera <5mm	5	512.0	160	0.9
Metridia pacifica C-4	42	56.9	149	0.8
Neocalanus plumchrus C-4	40	56.9	142	0.8
Pseudocalanus spp. C-5 F	36	56.9	128	0.7
Pseudocalanus spp. C-5 M	34	56.9	121	0.7
Neocalanus plumchrus C-5	59	20.5	75	0.4
Metridia pacifica - adult F	31	20.5	40	0.2
Metridia pacifica C-5 F	9	56.9	32	0.2
Hyperiididae <5mm	1	512.0	32	0.2
?Pseudocalanus spp. C-3	1	512.0	32	0.2
Acartia spp.	1	512.0	32	0.2
Gastropoda <5mm	1	512.0	32	0.2
?Pseudocalanus spp. C-2	1	512.0	32	0.2
Calanus marshallae - adult F	39	9.0	22	0.1
Neocalanus cristatus C-4	36	8.0	18	0.1
Chaetognatha 5-20mm	34	8.0	17	0.1
Calanus marshallae C-3	22	9.0	12	0.1
Pseudocalanus spp. C-4 F	8	20.5	10	0.1
Pseudocalanus spp. C-4 M	7	20.5	9	< 0.1
Neocalanus plumchrus C-3	15	9.0	8	< 0.1
Calanus marshallae C-4	12	9.0	7	< 0.1
Neocalanus cristatus C-5	12	8.0	6	< 0.1
Calanus marshallae - adult M	10	9.0	6	< 0.1
Chaetognatha >20mm	8	8.0	4	< 0.1
Other Copepoda >5mm	7	8.0	3	< 0.1
Cnidaria - medusa >5mm	7	8.0	3	< 0.1
Calanus marshallae C-5	3	9.0	2	< 0.1
Thysanoessa inermis A&J	3	8.0	1	< 0.1
Euphausiacea - calyptopis 1	1	20.5	1	< 0.1
Calanus marshallae C-2	1	9.0	1	< 0.1
Neocalanus cristatus C-3	1	9.0	1	< 0.1
Calanus marshallae C-1	1	9.0	1	< 0.1
Neocalanus plumchrus C-2	1	9.0	1	< 0.1
Hyperiididae >5mm	1	8.0	< 1	< 0.1
Thysanoessa spinifera A&J	1	8.0	< 1	< 0.1

17988	100.
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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
235 79 - 100 134.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	86	256.0	1638	27.6
Other Copepoda <2mm	49	256.0	933	15.7
Metriididae C-1	27	256.0	514	8.7
Other Copepoda - nauplius	23	256.0	438	7.4
Pseudocalanus spp. - adult F	21	256.0	400	6.7
Metridia pacifica - adult F	49	85.3	311	5.2
Pseudocalanus spp. - adult M	14	256.0	267	4.5
Metridia pacifica C-5 M	41	85.3	260	4.4
Metriididae C-3	11	256.0	209	3.5
Metriididae C-2	10	256.0	190	3.2
Metridia pacifica C-5 F	22	85.3	140	2.4
Larvacea	6	256.0	114	1.9
Metridia pacifica C-4	150	7.3	81	1.4
<5mm	3	256.0	57	1.0
Foraminifera <5mm	3	256.0	57	1.0
?Pseudocalanus spp. C-1	3	256.0	57	1.0
Brachyura - larva	2	256.0	38	0.6
Invertebrata - egg <5mm	2	256.0	38	0.6
Cladocera <5mm	1	256.0	19	0.3
Cumacea <5mm	1	256.0	19	0.3
?Pseudocalanus spp. C-3	1	256.0	19	0.3
Chaetognatha 5-20mm	59	4.0	18	0.3
Neocalanus plumchrus C-4	30	7.3	16	0.3
Pseudocalanus spp. C-5 F	25	7.3	14	0.2
Pseudocalanus spp. C-5 M	23	7.3	12	0.2
Neocalanus plumchrus C-5	21	7.3	11	0.2
Calanus marshallae - adult M	18	7.3	10	0.2
Calanus marshallae - adult F	15	7.3	8	0.1
Neocalanus cristatus C-4	24	4.0	7	0.1
Metridia pacifica - adult M	1	85.3	6	0.1
Other Copepoda >5mm	13	4.0	4	0.1
Calanus marshallae C-4	7	7.3	4	0.1
Chaetognatha >20mm	10	4.0	3	0.1
Pseudocalanus spp. C-4 F	3	7.3	2	< 0.1
Calanus marshallae C-3	3	7.3	2	< 0.1
Hyperiididae >5mm	4	4.0	1	< 0.1
Calanus marshallae C-5	2	7.3	1	< 0.1
Calanus marshallae C-2	2	7.3	1	< 0.1
Acartia spp.	2	7.3	1	< 0.1
Cnidaria - medusa >5mm	3	4.0	1	< 0.1
Neocalanus cristatus C-5	3	4.0	1	< 0.1
Pseudocalanus spp. C-4 M	1	7.3	1	< 0.1
Chaetognatha <5mm	1	4.0	< 1	< 0.1
Thysanoessa spinifera A&J	1	4.0	< 1	< 0.1
Thaliacea >5mm	1	4.0	< 1	< 0.1
			5924	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
235 100 - 147 227.8 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	76	256.0	854	21.6
Oithona spp.	52	256.0	584	14.8
Metriididae C-1	49	256.0	551	13.9
Other Copepoda - nauplius	43	256.0	483	12.2
Foraminifera <5mm	26	256.0	292	7.4
Metridia pacifica - adult F	45	85.3	169	4.3
Metriididae C-3	13	256.0	146	3.7
Metriididae C-2	12	256.0	135	3.4
Pseudocalanus spp. - adult F	32	85.3	120	3.0
Pseudocalanus spp. - adult M	28	85.3	105	2.6
Metridia pacifica C-4	25	85.3	94	2.4
Metridia pacifica C-5 F	21	85.3	79	2.0
Metridia spp. - adult F	20	85.3	75	1.9
Invertebrata - egg <5mm	5	256.0	56	1.4
Larvacea	3	256.0	34	0.9
Polychaeta <5mm	3	256.0	34	0.9
Metridia pacifica C-5 M	9	85.3	34	0.9
Chaetognatha 5-20mm	76	4.0	13	0.3
Ostracoda <5mm	1	256.0	11	0.3
Acartia spp.	1	256.0	11	0.3
?Pseudocalanus spp. C-2	1	256.0	11	0.3
Thecosomata <5mm	1	256.0	11	0.3
?Pseudocalanus spp. C-3	1	256.0	11	0.3
?Pseudocalanus spp. C-1	1	256.0	11	0.3
Neocalanus cristatus C-4	38	4.0	7	0.2
Calanus marshallae - adult F	14	7.3	4	0.1
Neocalanus plumchrus C-5	13	7.3	4	0.1
Pseudocalanus spp. C-5 M	13	7.3	4	0.1
Metridia pacifica - adult M	1	85.3	4	0.1
Pseudocalanus spp. C-5 F	9	7.3	3	0.1
Other Copepoda >5mm	12	4.0	2	0.1
Pseudocalanus spp. C-4 M	2	7.3	1	< 0.1
Neocalanus plumchrus C-4	2	7.3	1	< 0.1
Calanus marshallae C-5	2	7.3	1	< 0.1
Calanus marshallae - adult M	2	7.3	1	< 0.1
Neocalanus cristatus C-5	3	4.0	1	< 0.1
Hyperiidia >5mm	2	4.0	< 1	< 0.1
Calanus marshallae C-4	1	7.3	< 1	< 0.1
Calanus marshallae C-3	1	7.3	< 1	< 0.1
Pseudocalanus spp. C-4 F	1	7.3	< 1	< 0.1
Euphausiacea - calyptopis 2	1	7.3	< 1	< 0.1
Eucalanus bungii - adult M	1	4.0	< 1	< 0.1
Thysanoessa spinifera A&J	1	4.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	4.0	< 1	< 0.1
Chaetognatha >20mm	1	4.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	4.0	< 1	< 0.1
Siphonophora >5mm	1	4.0	< 1	< 0.1

Mysidacea >5mm

1	4.0	< 1	< 0.1
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		3959	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
235 148 - 200 235.2 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	231	128.0	1257	31.2
Metriididae C-1	90	128.0	490	12.1
Oithona spp.	84	128.0	457	11.3
Other Copepoda - nauplius	64	128.0	348	8.6
Metriididae C-2	53	128.0	288	7.1
Metridia pacifica C-4	34	128.0	185	4.6
Other Copepoda damaged	31	128.0	169	4.2
Metriididae C-3	25	128.0	136	3.4
Metridia pacifica - adult F	24	128.0	131	3.2
Metridia pacifica - adult M	18	128.0	98	2.4
Metridia pacifica C-5 F	17	128.0	93	2.3
Foraminifera <5mm	13	128.0	71	1.8
Metridia pacifica C-5 M	10	128.0	54	1.3
Cirripedia - nauplius <5mm	9	128.0	49	1.2
Pseudocalanus spp. - adult F	43	25.6	47	1.2
Pseudocalanus spp. - adult M	16	25.6	17	0.4
Metridia spp. - adult F	3	128.0	16	0.4
Larvacea	3	128.0	16	0.4
Thecosomata <5mm	3	128.0	16	0.4
Chaetognatha 5-20mm	77	4.0	13	0.3
Euphausiacea - nauplius	2	128.0	11	0.3
Mysidacea <5mm	2	128.0	11	0.3
Neocalanus plumchrus C-5	30	6.1	8	0.2
Polychaeta <5mm	1	128.0	5	0.1
Other Copepoda 2-5mm	1	128.0	5	0.1
Metridia spp. - adult M	1	128.0	5	0.1
Ostracoda <5mm	1	128.0	5	0.1
Gastropoda <5mm	1	128.0	5	0.1
Metridia spp. C-4	1	128.0	5	0.1
Calanus marshallae - adult M	13	6.1	3	0.1
Neocalanus cristatus C-4	19	4.0	3	0.1
Pseudocalanus spp. C-5 F	2	25.6	2	0.1
Siphonophora >5mm	7	4.0	1	< 0.1
Neocalanus cristatus C-5	7	4.0	1	< 0.1
Pseudocalanus spp. C-5 M	1	25.6	1	< 0.1
Acartia spp.	1	25.6	1	< 0.1
Other Copepoda >5mm	6	4.0	1	< 0.1
Neocalanus plumchrus C-4	3	6.1	1	< 0.1
Calanus pacificus C-5	3	6.1	1	< 0.1
Calanus marshallae C-5	2	6.1	1	< 0.1
Hyperiidia >5mm	3	4.0	1	< 0.1
Gammaridea >5mm	3	4.0	1	< 0.1
Chaetognatha >20mm	2	4.0	< 1	< 0.1
Eucalanus bungii - adult M	2	4.0	< 1	< 0.1
Neocalanus plumchrus C-3	1	6.1	< 1	< 0.1
Euphausiacea - calyptopis 1	1	6.1	< 1	< 0.1
Calanus pacificus - adult M	1	6.1	< 1	< 0.1

Calanus marshallae C-4	1	6.1	< 1	< 0.1
Euphausiacea - calyptopis 2	1	6.1	< 1	< 0.1
Calanus marshallae C-3	1	6.1	< 1	< 0.1
Calanus marshallae - adult F	1	6.1	< 1	< 0.1
Calanus pacificus C-4	1	6.1	< 1	< 0.1
Gymnosomata >5mm	1	4.0	< 1	< 0.1
Natantia A&J >5mm	1	4.0	< 1	< 0.1
Mysidacea >5mm	1	4.0	< 1	< 0.1
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		4035		100.

STA. 081 57 03.0 N 155 56.3 W 09 May 86 10:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
242 2 - 15 156.8 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	122	2048.0	15934	29.0
Other Copepoda - nauplius	68	2048.0	8881	16.2
?Pseudocalanus spp. C-2	33	2048.0	4310	7.8
?Pseudocalanus spp. C-1	29	2048.0	3788	6.9
?Pseudocalanus spp. C-3	29	2048.0	3788	6.9
Pseudocalanus spp. - adult F	27	2048.0	3526	6.4
Acartia spp.	23	2048.0	3004	5.5
Pseudocalanus spp. C-5 M	23	2048.0	3004	5.5
Pseudocalanus spp. - adult M	16	2048.0	2090	3.8
Pseudocalanus spp. C-4 M	16	2048.0	2090	3.8
Pseudocalanus spp. C-5 F	14	2048.0	1828	3.3
Pseudocalanus spp. C-4 F	8	2048.0	1045	1.9
Euphausiacea - nauplius	4	2048.0	522	1.0
Euphausiacea - furcilia	2	2048.0	261	0.5
Metridia pacifica - adult F	56	62.1	222	0.4
Neocalanus plumchrus C-5	35	62.1	139	0.3
Metridia pacifica C-5 M	23	62.1	91	0.2
Calanus marshallae C-2	22	62.1	87	0.2
Neocalanus plumchrus C-4	20	62.1	79	0.1
Calanus marshallae C-1	11	62.1	44	0.1
Calanus marshallae C-3	10	62.1	40	0.1
Metridia pacifica C-5 F	8	62.1	32	0.1
Metridia pacifica C-4	6	62.1	24	< 0.1
Calanus marshallae - adult F	46	7.1	21	< 0.1
Chaetognatha 5-20mm	56	4.0	14	< 0.1
Calanus marshallae C-4	26	7.1	12	< 0.1
Calanus marshallae C-5	17	7.1	8	< 0.1
Cnidaria - medusa >5mm	18	4.0	5	< 0.1
Metridia spp. - adult F	1	62.1	4	< 0.1
Unidentified Calanoida C-2	1	62.1	4	< 0.1
Unidentified Calanoida C-3	1	62.1	4	< 0.1
Neocalanus plumchrus C-3	1	62.1	4	< 0.1
Euphausiacea - calyptopis 3	6	7.1	3	< 0.1
Thysanoessa inermis A&J	9	4.0	2	< 0.1
Chaetognatha >20mm	9	4.0	2	< 0.1
Larvacea	5	7.1	2	< 0.1
Calanus marshallae - adult M	3	7.1	1	< 0.1
Euphausiacea - calyptopis 2	3	7.1	1	< 0.1
Invertebrata - egg <5mm	2	7.1	1	< 0.1
Thecosomata <5mm	2	7.1	1	< 0.1
Neocalanus cristatus C-5	3	4.0	1	< 0.1
Eucalanus bungii - adult F	3	4.0	1	< 0.1
Euphausiacea - calyptopis 1	1	7.1	< 1	< 0.1
Calanus pacificus - adult F	1	7.1	< 1	< 0.1
Cirripedia - cypris <5mm	1	7.1	< 1	< 0.1
Calanus pacificus C-4	1	7.1	< 1	< 0.1
Other Copepoda >5mm	1	4.0	< 1	< 0.1

Neocalanus cristatus C-4
Gammaridea >5mm

1	4.0	< 1	< 0.1
1	4.0	< 1	< 0.1
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	54920		100.

STA. 081 57 03.0 N 155 56.3 W 09 May 86 10:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
242 15 - 30 114.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	118	2048.0	21084	33.9
Other Copepoda - nauplius	72	2048.0	12865	20.7
?Pseudocalanus spp. C-1	28	2048.0	5003	8.0
?Pseudocalanus spp. C-2	20	2048.0	3574	5.7
Metridia spp. - adult F	11	2048.0	1965	3.2
Invertebrata - egg <5mm	11	2048.0	1965	3.2
?Pseudocalanus spp. C-3	11	2048.0	1965	3.2
Pseudocalanus spp. - adult F	28	682.7	1668	2.7
Pseudocalanus spp. C-5 M	26	682.7	1549	2.5
Neocalanus plumchrus C-5	88	186.2	1430	2.3
Pseudocalanus spp. C-5 F	18	682.7	1072	1.7
Pseudocalanus spp. C-4 F	17	682.7	1013	1.6
Pseudocalanus spp. - adult M	15	682.7	893	1.4
Larvacea	5	2048.0	893	1.4
Pseudocalanus spp. C-4 M	13	682.7	774	1.2
Neocalanus plumchrus C-4	38	186.2	617	1.0
Chaetognatha <5mm	3	2048.0	536	0.9
Cirripedia - cypris <5mm	2	2048.0	357	0.6
Gastropoda <5mm	2	2048.0	357	0.6
Echinodermata <5mm	2	2048.0	357	0.6
Thecosomata <5mm	2	2048.0	357	0.6
Acartia spp.	15	186.2	244	0.4
Calanus marshallae C-1	13	186.2	211	0.3
Calanus marshallae C-2	12	186.2	195	0.3
Cirripedia - nauplius <5mm	1	2048.0	179	0.3
Thaliacea <5mm	1	2048.0	179	0.3
Calanus marshallae C-3	9	186.2	146	0.2
Chaetognatha 5-20mm	82	16.0	114	0.2
Euphausiacea - calyptopis 1	47	27.3	112	0.2
Euphausiacea - nauplius	38	27.3	91	0.1
Metridia pacifica C-5 F	32	27.3	76	0.1
Metridia pacifica - adult F	24	27.3	57	0.1
Unidentified Calanoida C-2	3	186.2	49	0.1
Neocalanus plumchrus C-3	3	186.2	49	0.1
Euphausiacea - calyptopis 2	18	27.3	43	0.1
Metridia pacifica C-5 M	15	27.3	36	0.1
Calanus marshallae C-4	12	27.3	29	< 0.1
Euphausiacea - calyptopis 3	10	27.3	24	< 0.1
Metridia pacifica C-4	7	27.3	17	< 0.1
Calanus marshallae - adult F	7	27.3	17	< 0.1
Calanus marshallae C-5	7	27.3	17	< 0.1
Neocalanus plumchrus C-2	1	186.2	16	< 0.1
Chaetognatha >20mm	8	16.0	11	< 0.1
Cnidaria - medusa >5mm	8	16.0	11	< 0.1
Eucalanus bungii - adult F	4	16.0	6	< 0.1
Metriididae C-3	2	27.3	5	< 0.1
Thysanoessa spinifera A&J	3	16.0	4	< 0.1

Thysanoessa raschii A&J	2	16.0	3	< 0.1
Calanus pacificus C-5	1	27.3	2	< 0.1
Euphausiacea - furcilia	1	27.3	2	< 0.1
Neocalanus cristatus C-5	1	16.0	1	< 0.1
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		62240	100.	

STA. 081 57 03.0 N 155 56.3 W 09 May 86 10:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
242 30 - 58 235.8 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	97	2048.0	8427	30.4
Euphausiacea - nauplius	29	2048.0	2519	9.1
Neocalanus plumchrus C-5	114	409.6	1981	7.2
Other Copepoda - nauplius	21	2048.0	1824	6.6
?Pseudocalanus spp. C-2	17	2048.0	1477	5.3
?Pseudocalanus spp. C-3	16	2048.0	1390	5.0
Pseudocalanus spp. - adult F	66	409.6	1147	4.1
?Pseudocalanus spp. C-1	12	2048.0	1042	3.8
Neocalanus plumchrus C-4	47	409.6	817	2.9
Pseudocalanus spp. C-4 M	45	409.6	782	2.8
Pseudocalanus spp. C-4 F	40	409.6	695	2.5
Pseudocalanus spp. C-5 M	35	409.6	608	2.2
Metriididae C-3	7	2048.0	608	2.2
Pseudocalanus spp. - adult M	33	409.6	573	2.1
Invertebrata - egg <5mm	6	2048.0	521	1.9
Cirripedia - nauplius <5mm	6	2048.0	521	1.9
Pseudocalanus spp. C-5 F	22	409.6	382	1.4
Calanus marshallae C-1	20	409.6	347	1.3
Calanus marshallae C-2	15	409.6	261	0.9
Calanus marshallae C-3	10	409.6	174	0.6
Polychaeta <5mm	2	2048.0	174	0.6
Metriididae C-2	2	2048.0	174	0.6
Metridia pacifica C-5 M	25	157.5	167	0.6
Metridia pacifica C-4	23	157.5	154	0.6
Metridia pacifica - adult F	15	157.5	100	0.4
Thecosomata <5mm	1	2048.0	87	0.3
Metriididae C-1	1	2048.0	87	0.3
Larvacea	1	2048.0	87	0.3
Cirripedia - cypris <5mm	1	2048.0	87	0.3
Neocalanus plumchrus C-2	5	409.6	87	0.3
Metridia pacifica C-5 F	12	157.5	80	0.3
Chaetognatha 5-20mm	96	16.0	65	0.2
Calanus marshallae C-4	46	26.5	52	0.2
Metridia spp. - adult F	7	157.5	47	0.2
Unidentified Calanoida C-2	2	409.6	35	0.1
Neocalanus plumchrus C-3	2	409.6	35	0.1
Calanus marshallae - adult F	18	26.5	20	0.1
Calanus marshallae C-5	12	26.5	13	< 0.1
Chaetognatha >20mm	14	16.0	10	< 0.1
Metridia spp. C-5 M	1	157.5	7	< 0.1
Euphausiacea - calyptopis 1	5	26.5	6	< 0.1
Calanus marshallae - adult M	3	26.5	3	< 0.1
Neocalanus cristatus C-4	4	16.0	3	< 0.1
Acartia spp.	2	26.5	2	< 0.1
Euphausiacea - calyptopis 3	2	26.5	2	< 0.1
Cnidaria - medusa >5mm	3	16.0	2	< 0.1
Other Copepoda >5mm	3	16.0	2	< 0.1

Thysanoessa inermis A&J	2	16.0	1	< 0.1
Neocalanus cristatus C-5	2	16.0	1	< 0.1
Eucalanus bungii C-5 M	2	16.0	1	< 0.1
Calanus pacificus - adult F	1	26.5	1	< 0.1
Euphausiacea - calyptopis 2	1	26.5	1	< 0.1
Eucalanus bungii C-4 M	1	26.5	1	< 0.1
Eucalanus bungii - adult F	1	16.0	1	< 0.1
Thysanoessa spinifera A&J	1	16.0	1	< 0.1
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		27691	100.	

STA. 081 57 03.0 N 155 56.3 W 09 May 86 10:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
242 59 - 80 163.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	103	1024.0	6433	30.7
Other Copepoda - nauplius	30	1024.0	1874	9.0
Pseudocalanus spp. - adult M	22	1024.0	1374	6.6
Other Copepoda <2mm	18	1024.0	1124	5.4
Metriididae C-2	16	1024.0	999	4.8
Neocalanus plumchrus C-5	77	204.8	962	4.6
Pseudocalanus spp. - adult F	15	1024.0	937	4.5
Metriididae C-3	14	1024.0	874	4.2
Metriididae C-1	13	1024.0	812	3.9
?Pseudocalanus spp. C-1	9	1024.0	562	2.7
Pseudocalanus spp. C-5 M	40	204.8	500	2.4
Invertebrata - egg <5mm	7	1024.0	437	2.1
?Pseudocalanus spp. C-3	7	1024.0	437	2.1
Neocalanus plumchrus C-4	26	204.8	325	1.6
?Pseudocalanus spp. C-2	5	1024.0	312	1.5
Cirripedia - nauplius <5mm	5	1024.0	312	1.5
Larvacea	5	1024.0	312	1.5
Pseudocalanus spp. C-5 F	23	204.8	287	1.4
Pseudocalanus spp. C-4 F	21	204.8	262	1.3
Cirripedia - cypris <5mm	4	1024.0	250	1.2
Calanus marshallae C-2	16	204.8	200	1.0
Metridia pacifica C-4	32	78.8	154	0.7
Pseudocalanus spp. C-4 M	11	204.8	137	0.7
Metridia pacifica C-5 M	26	78.8	125	0.6
Calanus marshallae C-3	9	204.8	112	0.5
Metridia pacifica - adult F	19	78.8	91	0.4
Metridia pacifica C-5 F	19	78.8	91	0.4
Metridia spp. - adult F	19	78.8	91	0.4
Calanus marshallae C-1	7	204.8	87	0.4
Chaetognatha 5-20mm	66	16.0	64	0.3
Euphausiacea - nauplius	1	1024.0	62	0.3
Thecosomata <5mm	1	1024.0	62	0.3
Calanus marshallae C-4	37	22.8	51	0.2
Neocalanus plumchrus C-3	4	204.8	50	0.2
Neocalanus cristatus C-4	36	16.0	35	0.2
Unidentified Calanoida C-2	2	204.8	25	0.1
Calanus marshallae - adult F	13	22.8	18	0.1
Calanus marshallae C-5	13	22.8	18	0.1
Neocalanus plumchrus C-2	1	204.8	12	0.1
Unidentified Calanoida C-3	1	204.8	12	0.1
Calanus marshallae - adult M	6	22.8	8	< 0.1
Neocalanus cristatus C-5	7	16.0	7	< 0.1
Chaetognatha >20mm	6	16.0	6	< 0.1
Other Copepoda >5mm	5	16.0	5	< 0.1
Metridia pacifica - adult M	1	78.8	5	< 0.1
Euphausiacea - calyptopis 1	3	22.8	4	< 0.1
Eucalanus bungii C-5 M	3	16.0	3	< 0.1

Eucalanus bungii C-5 F	3	16.0	3	< 0.1
Calanus pacificus - adult F	1	22.8	1	< 0.1
Eucalanus bungii - adult F	1	16.0	1	< 0.1
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		20932	100.	

STA. 081 57 03.0 N 155 56.3 W 09 May 86 10:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
242 80 - 100 172.1 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	110	512.0	3272	35.5
Other Copepoda <2mm	44	512.0	1309	14.2
Other Copepoda - nauplius	29	512.0	863	9.4
Pseudocalanus spp. - adult F	27	512.0	803	8.7
Metriididae C-2	18	512.0	535	5.8
Pseudocalanus spp. - adult M	18	512.0	535	5.8
Metriididae C-1	15	512.0	446	4.8
Metriididae C-3	9	512.0	268	2.9
Neocalanus plumchrus C-5	39	102.4	232	2.5
?Pseudocalanus spp. C-1	7	512.0	208	2.3
Pseudocalanus spp. C-5 F	16	102.4	95	1.0
?Pseudocalanus spp. C-2	3	512.0	89	1.0
Metridia pacifica - adult F	58	24.3	82	0.9
Polychaeta <5mm	2	512.0	59	0.6
Pseudocalanus spp. C-5 M	9	102.4	54	0.6
Metridia pacifica C-4	25	24.3	35	0.4
Brachyura - larva	1	512.0	30	0.3
<5mm	1	512.0	30	0.3
Thecosomata <5mm	1	512.0	30	0.3
Foraminifera <5mm	1	512.0	30	0.3
Invertebrata - egg <5mm	1	512.0	30	0.3
Larvacea	1	512.0	30	0.3
Metridia spp. - adult F	11	24.3	16	0.2
Metridia pacifica C-5 M	11	24.3	16	0.2
Pseudocalanus spp. C-4 F	10	24.3	14	0.2
Neocalanus plumchrus C-4	10	24.3	14	0.2
Calanus marshallae C-4	37	6.0	13	0.1
Neocalanus cristatus C-4	51	4.0	12	0.1
Chaetognatha 5-20mm	46	4.0	11	0.1
Metridia pacifica C-5 F	6	24.3	8	0.1
Calanus marshallae - adult M	23	6.0	8	0.1
Calanus marshallae C-5	14	6.0	5	0.1
Calanus marshallae C-3	14	6.0	5	0.1
Other Copepoda >5mm	15	4.0	3	< 0.1
Neocalanus cristatus C-5	13	4.0	3	< 0.1
Pseudocalanus spp. C-4 M	2	24.3	3	< 0.1
Calanus marshallae - adult F	8	6.0	3	< 0.1
Chaetognatha >20mm	10	4.0	2	< 0.1
Acartia spp.	3	6.0	1	< 0.1
Neocalanus cristatus C-3	2	6.0	1	< 0.1
Neocalanus plumchrus C-3	2	6.0	1	< 0.1
Calanus pacificus - adult F	1	6.0	< 1	< 0.1
Neocalanus plumchrus C-2	1	6.0	< 1	< 0.1
Euphausiacea - nauplius	1	6.0	< 1	< 0.1
Euphausiacea - furcilia	1	6.0	< 1	< 0.1
Calanus marshallae C-2	1	6.0	< 1	< 0.1
Thysanoessa inermis A&J	1	4.0	< 1	< 0.1

Mysidacea >5mm	1	4.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	4.0	< 1	< 0.1
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		9206		100.

STA. 081 57 03.0 N 155 56.3 W 09 May 86 10:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
242 100 - 150 457.0 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	83	1024.0	1860	27.8
Other Copepoda <2mm	66	1024.0	1479	22.1
Other Copepoda - nauplius	33	1024.0	739	11.1
Metriididae C-1	28	1024.0	627	9.4
Metriididae C-2	18	1024.0	403	6.0
Pseudocalanus spp. - adult F	89	204.8	399	6.0
Other Copepoda damaged	13	1024.0	291	4.4
Metriididae C-3	9	1024.0	202	3.0
Metridia pacifica C-4	30	204.8	134	2.0
Pseudocalanus spp. - adult M	25	204.8	112	1.7
Metridia pacifica C-5 F	20	204.8	90	1.3
Metridia pacifica - adult F	71	48.8	76	1.1
Metridia pacifica C-5 M	15	204.8	67	1.0
Larvacea	3	1024.0	67	1.0
Neocalanus plumchrus C-5	54	48.8	58	0.9
Ostracoda <5mm	1	1024.0	22	0.3
Chaetognatha 5-20mm	65	8.0	11	0.2
Pseudocalanus spp. C-5 M	9	48.8	10	0.1
Calanus marshallae - adult M	27	12.0	7	0.1
Neocalanus cristatus C-4	36	8.0	6	0.1
Pseudocalanus spp. C-5 F	4	48.8	4	0.1
Metridia spp. - adult F	3	48.8	3	< 0.1
Pseudocalanus spp. C-4 F	3	48.8	3	< 0.1
Neocalanus plumchrus C-4	12	12.0	3	< 0.1
Calanus marshallae C-5	9	12.0	2	< 0.1
Calanus marshallae C-4	9	12.0	2	< 0.1
Neocalanus cristatus C-5	9	8.0	2	< 0.1
Other Copepoda >5mm	9	8.0	2	< 0.1
Chaetognatha >20mm	8	8.0	1	< 0.1
Pseudocalanus spp. C-4 M	1	48.8	1	< 0.1
Euphausiacea - calyptopis 1	1	48.8	1	< 0.1
Calanus marshallae - adult F	3	12.0	1	< 0.1
Calanus marshallae C-3	1	12.0	< 1	< 0.1
Acartia spp.	1	12.0	< 1	< 0.1
Unidentified Calanoida C-3	1	12.0	< 1	< 0.1
Calanus pacificus - adult M	1	12.0	< 1	< 0.1
Gammaridea >5mm	1	8.0	< 1	< 0.1
			6689	100.

STA. 081 57 03.0 N 155 56.3 W 09 May 86 10:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
242 150 - 202 480.5 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	106	512.0	1129	17.9
Other Copepoda <2mm	99	512.0	1055	16.7
Pseudocalanus spp. - adult F	88	512.0	938	14.9
Metriididae C-2	74	512.0	788	12.5
Other Copepoda - nauplius	47	512.0	501	7.9
Metriididae C-1	44	512.0	469	7.4
Metriididae C-3	34	512.0	362	5.7
Metridia pacifica C-5 F	28	512.0	298	4.7
Metridia pacifica C-4	20	512.0	213	3.4
Metridia pacifica C-5 M	11	512.0	117	1.9
Pseudocalanus spp. - adult M	9	512.0	96	1.5
Metridia pacifica - adult F	38	102.4	81	1.3
Euphausiacea - nauplius	4	512.0	43	0.7
Metridia pacifica - adult M	16	102.4	34	0.5
Invertebrata - egg <5mm	3	512.0	32	0.5
Thecosomata <5mm	3	512.0	32	0.5
?Pseudocalanus spp. C-3	2	512.0	21	0.3
?Pseudocalanus spp. C-2	2	512.0	21	0.3
Neocalanus plumchrus C-5	70	13.8	20	0.3
Metridia spp. C-5 M	1	512.0	11	0.2
Metridia spp. C-5 F	1	512.0	11	0.2
Neocalanus cristatus C-4	54	8.0	9	0.1
Calanus marshallae - adult M	23	13.8	7	0.1
Pseudocalanus spp. C-5 M	16	13.8	5	0.1
Chaetognatha 5-20mm	22	8.0	4	0.1
Pseudocalanus spp. C-5 F	12	13.8	3	0.1
Other Copepoda >5mm	15	8.0	2	< 0.1
Neocalanus plumchrus C-4	7	13.8	2	< 0.1
Hyperiididae >5mm	6	8.0	1	< 0.1
Neocalanus cristatus C-5	4	8.0	1	< 0.1
Pseudocalanus spp. C-4 M	2	13.8	1	< 0.1
Pseudocalanus spp. C-4 F	2	13.8	1	< 0.1
Neocalanus plumchrus - adult F	1	13.8	< 1	< 0.1
Calanus marshallae C-4	1	13.8	< 1	< 0.1
Calanus marshallae - adult F	1	13.8	< 1	< 0.1
Calanus marshallae C-5	1	13.8	< 1	< 0.1
Thysanoessa inermis A&J	1	8.0	< 1	< 0.1
Mysidacea >5mm	1	8.0	< 1	< 0.1
			6308	100.

STA. 091 57 02.1 N 155 42.6 W 10 May 86 16:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 2 - 15 100.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	104	2048.0	21214	28.4
Other Copepoda - nauplius	45	2048.0	9179	12.3
Invertebrata - egg <5mm	42	2048.0	8567	11.5
Euphausiacea - nauplius	41	2048.0	8363	11.2
?Pseudocalanus spp. C-1	26	2048.0	5304	7.1
?Pseudocalanus spp. C-2	20	2048.0	4080	5.5
Pseudocalanus spp. - adult F	78	409.6	3182	4.3
?Pseudocalanus spp. C-3	15	2048.0	3060	4.1
Pseudocalanus spp. C-4 M	45	409.6	1836	2.5
Pseudocalanus spp. C-5 M	40	409.6	1632	2.2
Pseudocalanus spp. - adult M	36	409.6	1469	2.0
Pseudocalanus spp. C-4 F	33	409.6	1346	1.8
Pseudocalanus spp. C-5 F	29	409.6	1183	1.6
Cirripedia - nauplius <5mm	4	2048.0	816	1.1
Neocalanus plumchrus C-5	42	157.5	659	0.9
Echinodermata - larva <5mm	3	2048.0	612	0.8
Neocalanus plumchrus C-4	30	157.5	471	0.6
Acartia spp.	29	157.5	455	0.6
Hyperiidia <5mm	1	2048.0	204	0.3
Larvacea	1	2048.0	204	0.3
Calanus marshallae C-1	12	157.5	188	0.3
Calanus marshallae C-2	12	157.5	188	0.3
Euphausiacea - calyptopis 1	30	45.5	136	0.2
Calanus marshallae C-3	7	157.5	110	0.1
Chaetognatha 5-20mm	102	8.0	81	0.1
Calanus marshallae C-4	28	18.8	52	0.1
Euphausiacea - calyptopis 2	5	45.5	23	< 0.1
Euphausiacea - calyptopis 3	4	45.5	18	< 0.1
Calanus marshallae C-5	7	18.8	13	< 0.1
Cnidaria - medusa >5mm	13	8.0	10	< 0.1
Calanus marshallae - adult F	5	18.8	9	< 0.1
Calanus marshallae - adult M	2	18.8	4	< 0.1
Calanus pacificus - adult F	1	18.8	2	< 0.1
Calanus pacificus C-5	1	18.8	2	< 0.1
Eucalanus bungii - adult F	2	8.0	2	< 0.1
Eucalanus bungii C-5 F	1	8.0	1	< 0.1
Chaetognatha >20mm	1	8.0	1	< 0.1
Eucalanus bungii - adult M	1	8.0	1	< 0.1
			74677	100.

STA. 091 57 02.1 N 155 42.6 W 10 May 86 16:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 15 - 30 120.5 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	87	2048.0	14785	29.1
Other Copepoda - nauplius	29	2048.0	4928	9.7
?Pseudocalanus spp. C-1	27	2048.0	4588	9.0
Neocalanus plumchrus C-5	69	682.7	3909	7.7
?Pseudocalanus spp. C-2	21	2048.0	3569	7.0
Euphausiacea - nauplius	17	2048.0	2889	5.7
Pseudocalanus spp. - adult F	30	682.7	1700	3.3
?Pseudocalanus spp. C-3	10	2048.0	1699	3.3
Invertebrata - egg <5mm	9	2048.0	1529	3.0
Pseudocalanus spp. C-5 M	23	682.7	1303	2.6
Pseudocalanus spp. C-5 F	20	682.7	1133	2.2
Pseudocalanus spp. - adult M	17	682.7	963	1.9
Neocalanus plumchrus C-4	55	186.2	850	1.7
Pseudocalanus spp. C-4 M	15	682.7	850	1.7
Larvacea	4	2048.0	680	1.3
Other Copepoda <2mm	4	2048.0	680	1.3
Pseudocalanus spp. C-4 F	11	682.7	623	1.2
Gastropoda <5mm	3	2048.0	510	1.0
Echinodermata <5mm	3	2048.0	510	1.0
Cirripedia - nauplius <5mm	3	2048.0	510	1.0
Calanus marshallae C-2	25	186.2	386	0.8
Cirripedia - cypris <5mm	2	2048.0	340	0.7
Chaetognatha <5mm	2	2048.0	340	0.7
Calanus marshallae C-1	12	186.2	185	0.4
Polychaeta <5mm	1	2048.0	170	0.3
Anomura - larva	1	2048.0	170	0.3
Metriididae C-1	1	2048.0	170	0.3
Natantia - larva	1	2048.0	170	0.3
Chaetognatha 5-20mm	99	16.0	131	0.3
Calanus marshallae C-3	8	186.2	124	0.2
Neocalanus plumchrus C-3	7	186.2	108	0.2
Acartia spp.	27	27.3	61	0.1
Calanus marshallae C-4	27	27.3	61	0.1
Euphausiacea - calyptopis 1	24	27.3	54	0.1
Unidentified Calanoida C-2	2	186.2	31	0.1
Calanus marshallae C-5	12	27.3	27	0.1
Euphausiacea - calyptopis 2	11	27.3	25	< 0.1
Calanus marshallae - adult F	10	27.3	23	< 0.1
Neocalanus plumchrus C-1	1	186.2	15	< 0.1
Neocalanus plumchrus C-2	1	186.2	15	< 0.1
Euphausiacea - furcilia	3	27.3	7	< 0.1
Chaetognatha >20mm	4	16.0	5	< 0.1
Euphausiacea - calyptopis 3	2	27.3	5	< 0.1
Metridia pacifica - adult F	2	27.3	5	< 0.1
Eucalanus bungii - adult F	3	16.0	4	< 0.1
Cnidaria - medusa >5mm	3	16.0	4	< 0.1

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STA. 091 57 02.1 N 155 42.6 W 10 May 86 16:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 29 - 45 126.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	111	1024.0	8992	24.0
?Pseudocalanus spp. C-1	49	1024.0	3970	10.6
Neocalanus plumchrus C-5	43	1024.0	3484	9.3
Other Copepoda - nauplius	37	1024.0	2997	8.0
?Pseudocalanus spp. C-2	37	1024.0	2997	8.0
?Pseudocalanus spp. C-3	32	1024.0	2592	6.9
Pseudocalanus spp. C-4 M	18	1024.0	1458	3.9
Pseudocalanus spp. - adult F	17	1024.0	1377	3.7
Pseudocalanus spp. C-4 F	15	1024.0	1215	3.2
Pseudocalanus spp. C-5 M	12	1024.0	972	2.6
Pseudocalanus spp. - adult M	11	1024.0	891	2.4
Pseudocalanus spp. C-5 F	10	1024.0	810	2.2
Larvacea	10	1024.0	810	2.2
Neocalanus plumchrus C-4	39	256.0	790	2.1
Invertebrata - egg <5mm	9	1024.0	729	1.9
Euphausiacea - nauplius	8	1024.0	648	1.7
Calanus marshallae C-1	14	512.0	567	1.5
Calanus marshallae C-2	11	512.0	446	1.2
Other Copepoda <2mm	5	1024.0	405	1.1
Polychaeta <5mm	3	1024.0	243	0.6
Calanus marshallae C-3	6	512.0	243	0.6
Chaetognatha 5-20mm	88	32.0	223	0.6
Metriididae C-3	2	1024.0	162	0.4
Calanus marshallae C-4	30	51.2	122	0.3
Metriididae C-2	1	1024.0	81	0.2
Calanus marshallae - adult F	16	51.2	65	0.2
Unidentified Calanoida C-2	1	512.0	41	0.1
Neocalanus plumchrus C-3	1	512.0	41	0.1
Chaetognatha >20mm	14	32.0	35	0.1
Metridia pacifica C-4	3	51.2	12	< 0.1
Acartia spp.	3	51.2	12	< 0.1
Metridia pacifica - adult F	2	51.2	8	< 0.1
Metridia pacifica C-5 F	2	51.2	8	< 0.1
Calanus marshallae C-5	1	51.2	4	< 0.1
Eucalanus bungii C-5 F	1	32.0	3	< 0.1
Eucalanus bungii - adult F	1	32.0	3	< 0.1
Neocalanus cristatus C-5	1	32.0	3	< 0.1
			37459	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 46 - 58 84.2 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	99	512.0	6020	28.3
Pseudocalanus spp. - adult F	29	512.0	1763	8.3
Other Copepoda - nauplius	29	512.0	1763	8.3
Neocalanus plumchrus C-5	57	256.0	1733	8.1
Pseudocalanus spp. - adult M	28	512.0	1703	8.0
Metriididae C-3	18	512.0	1095	5.1
Pseudocalanus spp. C-5 F	27	256.0	821	3.9
Metriididae C-2	12	512.0	730	3.4
Pseudocalanus spp. C-5 M	23	256.0	699	3.3
Pseudocalanus spp. C-4 M	22	256.0	669	3.1
?Pseudocalanus spp. C-2	8	512.0	486	2.3
?Pseudocalanus spp. C-1	7	512.0	426	2.0
Other Copepoda <2mm	7	512.0	426	2.0
Invertebrata - egg <5mm	7	512.0	426	2.0
Neocalanus plumchrus C-4	25	128.0	380	1.8
?Pseudocalanus spp. C-3	6	512.0	365	1.7
Pseudocalanus spp. C-4 F	12	256.0	365	1.7
Calanus marshallae C-3	14	128.0	213	1.0
Calanus marshallae C-2	10	128.0	152	0.7
Metridia pacifica C-4	75	14.2	126	0.6
Metriididae C-1	2	512.0	122	0.6
Euphausiacea - nauplius	2	512.0	122	0.6
Larvacea	2	512.0	122	0.6
Neocalanus plumchrus C-2	7	128.0	106	0.5
Neocalanus plumchrus C-3	5	128.0	76	0.4
Hyperiididae <5mm	1	512.0	61	0.3
Cirripectida - nauplius <5mm	1	512.0	61	0.3
Chaetognatha 5-20mm	62	8.0	59	0.3
Calanus marshallae C-4	30	14.2	51	0.2
Calanus marshallae C-1	3	128.0	46	0.2
Calanus marshallae - adult F	17	14.2	29	0.1
Neocalanus cristatus C-4	20	8.0	19	0.1
Metridia pacifica C-5 M	11	14.2	19	0.1
Chaetognatha >20mm	16	8.0	15	0.1
Unidentified Calanoida C-2	1	128.0	15	0.1
Calanus marshallae - adult M	4	14.2	7	< 0.1
Calanus marshallae C-5	4	14.2	7	< 0.1
Neocalanus cristatus C-5	4	8.0	4	< 0.1
Eucalanus bungii - adult M	3	8.0	3	< 0.1
Eucalanus bungii C-5 F	2	8.0	2	< 0.1
Euphausiacea - calyptopis 3	1	14.2	2	< 0.1
Metridia pacifica - adult F	1	14.2	2	< 0.1
Euphausiacea - calyptopis 1	1	14.2	2	< 0.1
Eucalanus bungii - adult F	1	8.0	1	< 0.1
			21309	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 59 - 78 120.1 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	102	512.0	4348	29.4
Pseudocalanus spp. - adult F	49	512.0	2089	14.1
Pseudocalanus spp. - adult M	27	512.0	1151	7.8
Other Copepoda <2mm	25	512.0	1066	7.2
Other Copepoda - nauplius	21	512.0	895	6.1
Metriididae C-2	16	512.0	682	4.6
Metriididae C-3	15	512.0	639	4.3
Neocalanus plumchrus C-5	27	170.7	384	2.6
Pseudocalanus spp. C-5 F	25	170.7	355	2.4
Metriididae C-1	8	512.0	341	2.3
Neocalanus plumchrus C-4	22	170.7	313	2.1
Larvacea	7	512.0	298	2.0
Pseudocalanus spp. C-5 M	18	170.7	256	1.7
?Pseudocalanus spp. C-1	6	512.0	256	1.7
?Pseudocalanus spp. C-3	6	512.0	256	1.7
Metridia pacifica C-5 M	39	73.1	237	1.6
Other Copepoda damaged	5	512.0	213	1.4
Metridia pacifica C-4	32	73.1	195	1.3
Pseudocalanus spp. C-4 F	17	73.1	103	0.7
Euphausiacea - nauplius	2	512.0	85	0.6
Invertebrata - egg <5mm	2	512.0	85	0.6
Pseudocalanus spp. C-4 M	10	73.1	61	0.4
Chaetognatha 5-20mm	70	8.0	47	0.3
Calanus marshallae C-4	24	22.3	45	0.3
Metridia pacifica - adult F	23	22.3	43	0.3
?Pseudocalanus spp. C-2	1	512.0	43	0.3
Gastropoda <5mm	1	512.0	43	0.3
Cirripedia - cypris <5mm	1	512.0	43	0.3
Calanus marshallae C-3	20	22.3	37	0.3
Neocalanus cristatus C-4	55	8.0	37	0.2
Metridia pacifica C-5 F	4	73.1	24	0.2
Neocalanus plumchrus C-3	11	22.3	20	0.1
Neocalanus cristatus C-5	28	8.0	19	0.1
Chaetognatha >20mm	25	8.0	17	0.1
Calanus marshallae C-5	7	22.3	13	0.1
Calanus marshallae C-2	6	22.3	11	0.1
Calanus marshallae - adult F	6	22.3	11	0.1
Calanus marshallae - adult M	3	22.3	6	< 0.1
Unidentified Calanoida C-3	2	22.3	4	< 0.1
Thysanoessa inermis A&J	3	8.0	2	< 0.1
Calanus marshallae C-1	1	22.3	2	< 0.1
Neocalanus plumchrus C-2	1	22.3	2	< 0.1
Unidentified Calanoida C-2	1	22.3	2	< 0.1
Eucalanus bungii C-5 F	1	8.0	1	< 0.1
Thysanoessa spinifera A&J	1	8.0	1	< 0.1
Cnidaria - medusa >5mm	1	8.0	1	< 0.1

14780

100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 79 - 99 227.0 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	114	512.0	2571	28.4
Other Copepoda <2mm	58	512.0	1308	14.5
Pseudocalanus spp. - adult F	33	512.0	744	8.2
Other Copepoda - nauplius	32	512.0	722	8.0
Metriididae C-1	24	512.0	541	6.0
Pseudocalanus spp. - adult M	24	512.0	541	6.0
Metriididae C-2	22	512.0	496	5.5
Metriididae C-3	15	512.0	338	3.7
Metridia pacifica C-5 M	60	102.4	271	3.0
Neocalanus plumchrus C-5	58	102.4	262	2.9
Metridia pacifica - adult F	48	102.4	217	2.4
?Pseudocalanus spp. C-1	9	512.0	203	2.2
Metridia pacifica C-5 F	33	102.4	149	1.6
Invertebrata - egg <5mm	5	512.0	113	1.2
Metridia pacifica C-4	24	102.4	108	1.2
?Pseudocalanus spp. C-3	3	512.0	68	0.7
Pseudocalanus spp. C-5 F	14	102.4	63	0.7
Pseudocalanus spp. C-5 M	13	102.4	59	0.6
Larvacea	2	512.0	45	0.5
Metridia spp. - adult F	7	102.4	32	0.3
Euphausiacea - nauplius	1	512.0	23	0.2
Hyperiidea <5mm	1	512.0	23	0.2
Cirripectida - nauplius <5mm	1	512.0	23	0.2
?Pseudocalanus spp. C-2	1	512.0	23	0.2
Chaetognatha 5-20mm	64	8.0	23	0.2
Neocalanus cristatus C-4	33	8.0	12	0.1
Neocalanus plumchrus C-4	18	13.8	11	0.1
Acartia spp.	2	102.4	9	0.1
Calanus marshallae C-4	12	13.8	7	0.1
Calanus marshallae - adult M	11	13.8	7	0.1
Pseudocalanus spp. C-4 F	10	13.8	6	0.1
Chaetognatha >20mm	17	8.0	6	0.1
Calanus marshallae C-5	7	13.8	4	< 0.1
Pseudocalanus spp. C-4 M	5	13.8	3	< 0.1
Neocalanus cristatus C-5	7	8.0	2	< 0.1
Calanus marshallae - adult F	3	13.8	2	< 0.1
Calanus marshallae C-3	3	13.8	2	< 0.1
Other Copepoda >5mm	4	8.0	1	< 0.1
Cnidaria - medusa >5mm	2	8.0	1	< 0.1
Thysanoessa spinifera A&J	2	8.0	1	< 0.1
Neocalanus plumchrus C-3	1	13.8	1	< 0.1
Thysanoessa inermis A&J	1	8.0	< 1	< 0.1
Gammaridea >5mm	1	8.0	< 1	< 0.1
Eucalanus bungii - adult M	1	8.0	< 1	< 0.1
Eucalanus bungii - adult F	1	8.0	< 1	< 0.1
			9038	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 101 - 149 225.2 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	98	512.0	2228	23.8
Other Copepoda <2mm	72	512.0	1637	17.5
Other Copepoda - nauplius	55	512.0	1251	13.3
Metriididae C-1	40	512.0	910	9.7
Pseudocalanus spp. - adult F	34	512.0	773	8.2
Metriididae C-2	32	512.0	728	7.8
Pseudocalanus spp. - adult M	10	512.0	227	2.4
Metriididae C-3	10	512.0	227	2.4
Metridia pacifica - adult F	47	102.4	214	2.3
Euphausiacea - nauplius	7	512.0	159	1.7
Metridia pacifica C-5 F	28	102.4	127	1.4
?Pseudocalanus spp. C-1	5	512.0	114	1.2
Metridia pacifica C-4	25	102.4	114	1.2
Metridia pacifica C-5 M	23	102.4	105	1.1
Neocalanus plumchrus C-5	56	39.4	98	1.0
?Pseudocalanus spp. C-3	4	512.0	91	1.0
Pseudocalanus spp. C-5 M	33	39.4	58	0.6
Pseudocalanus spp. C-5 F	26	39.4	45	0.5
Invertebrata - egg <5mm	2	512.0	45	0.5
?Pseudocalanus spp. C-2	1	512.0	23	0.2
Natantia - larva	1	512.0	23	0.2
Cirripedia - nauplius <5mm	1	512.0	23	0.2
Metridia spp. - adult F	4	102.4	18	0.2
Chaetognatha 5-20mm	41	8.0	15	0.2
Neocalanus plumchrus C-4	18	17.7	14	0.2
Pseudocalanus spp. C-4 M	17	17.7	13	0.1
Neocalanus cristatus C-4	27	8.0	10	0.1
Metridia pacifica - adult M	2	102.4	9	0.1
Pseudocalanus spp. C-4 F	11	17.7	9	0.1
Calanus marshallae C-3	10	17.7	8	0.1
Calanus marshallae - adult M	10	17.7	8	0.1
Calanus marshallae C-4	10	17.7	8	0.1
Neocalanus cristatus C-5	20	8.0	7	0.1
Calanus marshallae C-5	8	17.7	6	0.1
Metridia spp. C-5 F	1	102.4	5	< 0.1
Metridia spp. C-5 M	1	102.4	5	< 0.1
Calanus marshallae C-1	5	17.7	4	< 0.1
Calanus marshallae C-2	5	17.7	4	< 0.1
Neocalanus plumchrus C-2	4	17.7	3	< 0.1
Other Copepoda >5mm	8	8.0	3	< 0.1
Calanus marshallae - adult F	3	17.7	2	< 0.1
Acartia spp.	1	39.4	2	< 0.1
Chaetognatha >20mm	4	8.0	1	< 0.1
Cnidaria - medusa >5mm	2	8.0	1	< 0.1
Gammaridea >5mm	2	8.0	1	< 0.1
Eucalanus bungii - adult M	1	8.0	< 1	< 0.1
Eucalanus bungii - adult F	1	8.0	< 1	< 0.1

----- 9374
----- 100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 151 - 229 338.2 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	104	2048.0	6298	29.1
Euphausiacea - nauplius	31	2048.0	1877	8.7
Neocalanus plumchrus C-5	26	2048.0	1575	7.3
Pseudocalanus spp. - adult M	25	2048.0	1514	7.0
Pseudocalanus spp. - adult F	24	2048.0	1453	6.7
Metriididae C-1	21	2048.0	1272	5.9
Other Copepoda <2mm	20	2048.0	1211	5.6
?Pseudocalanus spp. C-2	17	2048.0	1030	4.7
Other Copepoda - nauplius	16	2048.0	969	4.5
?Pseudocalanus spp. C-3	10	2048.0	606	2.8
Metriididae C-2	10	2048.0	606	2.8
Metriididae C-3	6	2048.0	363	1.7
Metridia pacifica - adult F	40	292.6	346	1.6
Neocalanus plumchrus C-4	35	292.6	303	1.4
Other Copepoda damaged	5	2048.0	303	1.4
Cirripedia - nauplius <5mm	5	2048.0	303	1.4
?Pseudocalanus spp. C-1	4	2048.0	242	1.1
Invertebrata - egg <5mm	4	2048.0	242	1.1
Metridia pacifica C-5 M	19	292.6	164	0.8
Cirripedia - cypris <5mm	2	2048.0	121	0.6
Metridia pacifica C-4	65	52.5	101	0.5
Metridia pacifica - adult M	9	292.6	78	0.4
Metridia pacifica C-5 F	9	292.6	78	0.4
Chaetognatha 5-20mm	69	32.0	65	0.3
Brachyura - larva	1	2048.0	61	0.3
Other Copepoda 2-5mm	1	2048.0	61	0.3
Calanus marshallae C-3	30	52.5	47	0.2
Acartia spp.	30	52.5	47	0.2
Pseudocalanus spp. C-5 F	22	68.3	44	0.2
Pseudocalanus spp. C-5 M	17	68.3	34	0.2
Pseudocalanus spp. C-4 M	16	68.3	32	0.1
Pseudocalanus spp. C-4 F	16	68.3	32	0.1
Calanus marshallae C-2	18	52.5	28	0.1
Calanus marshallae C-4	18	52.5	28	0.1
Calanus marshallae C-1	16	52.5	25	0.1
Calanus marshallae - adult F	12	52.5	19	0.1
Neocalanus plumchrus C-3	11	52.5	17	0.1
Calanus marshallae - adult M	9	52.5	14	0.1
Neocalanus cristatus C-4	13	32.0	12	0.1
Calanus marshallae C-5	7	52.5	11	0.1
Neocalanus plumchrus C-2	5	52.5	8	< 0.1
Euphausiacea - calyptopis 1	5	52.5	8	< 0.1
Neocalanus cristatus C-5	7	32.0	7	< 0.1
Chaetognatha >20mm	6	32.0	6	< 0.1
Unidentified Calanoida C-3	3	52.5	5	< 0.1
Other Copepoda >5mm	4	32.0	4	< 0.1
Euphausiacea - calyptopis 3	2	52.5	3	< 0.1

Cnidaria - medusa >5mm	2	32.0	2	< 0.1
Thysanoessa inermis A&J	1	32.0	1	< 0.1
Eucalanus bungii C-5 M	1	32.0	1	< 0.1
Eucalanus bungii - adult F	1	32.0	1	< 0.1
Eucalanus bungii C-5 F	1	32.0	1	< 0.1
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		21677	100.	

STA. 093 56 59.3 N 155 40.7 W 10 May 86 22:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
296 2 - 14 70.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	68	2048.0	19793	20.0
Euphausiacea - nauplius	53	2048.0	15427	15.6
Invertebrata - egg <5mm	39	2048.0	11352	11.5
Other Copepoda - nauplius	36	2048.0	10479	10.6
?Pseudocalanus spp. C-2	22	2048.0	6404	6.5
Pseudocalanus spp. - adult F	22	2048.0	6404	6.5
?Pseudocalanus spp. C-1	14	2048.0	4075	4.1
?Pseudocalanus spp. C-3	13	2048.0	3784	3.8
Pseudocalanus spp. C-4 M	31	682.7	3008	3.0
Acartia spp.	31	682.7	3008	3.0
Pseudocalanus spp. C-5 M	31	682.7	3008	3.0
Larvacea	9	2048.0	2620	2.6
Pseudocalanus spp. C-5 F	26	682.7	2523	2.5
Pseudocalanus spp. - adult M	6	2048.0	1746	1.8
Echinodermata - larva <5mm	5	2048.0	1455	1.5
Pseudocalanus spp. C-4 F	14	682.7	1358	1.4
Cirripedia - nauplius <5mm	3	2048.0	873	0.9
Calanus marshallae C-2	13	186.2	344	0.3
Polychaeta <5mm	1	2048.0	291	0.3
Cirripedia - cypris <5mm	1	2048.0	291	0.3
Neocalanus plumchrus C-4	48	27.3	186	0.2
Neocalanus plumchrus C-5	41	27.3	159	0.2
Calanus marshallae C-1	5	186.2	132	0.1
Calanus marshallae C-3	4	186.2	106	0.1
Euphausiacea - calyptopis 1	28	10.1	40	< 0.1
Chaetognatha 5-20mm	126	2.0	36	< 0.1
Unidentified Calanoida C-1	1	186.2	26	< 0.1
Neocalanus plumchrus C-2	1	186.2	26	< 0.1
Neocalanus plumchrus C-3	1	186.2	26	< 0.1
Neocalanus plumchrus C-1	1	186.2	26	< 0.1
Calanus marshallae C-4	18	10.1	26	< 0.1
Euphausiacea - calyptopis 2	10	10.1	14	< 0.1
Calanus marshallae C-5	7	10.1	10	< 0.1
Euphausiacea - calyptopis 3	6	10.1	9	< 0.1
Cnidaria - medusa >5mm	25	2.0	7	< 0.1
Calanus marshallae - adult F	2	10.1	3	< 0.1
Euphausiacea - furcilia	1	10.1	1	< 0.1
Chaetognatha >20mm	4	2.0	1	< 0.1
			99079	100.

STA. 093 56 59.3 N 155 40.7 W 10 May 86 22:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
296 30 - 45 93.2 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	100	2048.0	21981	25.6
Other Copepoda - nauplius	56	2048.0	12310	14.3
?Pseudocalanus spp. C-2	29	2048.0	6375	7.4
Invertebrata - egg <5mm	27	2048.0	5935	6.9
?Pseudocalanus spp. C-1	25	2048.0	5495	6.4
Neocalanus plumchrus C-5	40	1024.0	4396	5.1
?Pseudocalanus spp. C-3	17	2048.0	3737	4.3
Cirripedia - cypris <5mm	16	2048.0	3517	4.1
Euphausiacea - nauplius	13	2048.0	2858	3.3
Pseudocalanus spp. C-5 M	24	1024.0	2638	3.1
Pseudocalanus spp. C-4 M	22	1024.0	2418	2.8
Pseudocalanus spp. - adult F	22	1024.0	2418	2.8
Pseudocalanus spp. C-5 F	15	1024.0	1649	1.9
Neocalanus plumchrus C-4	43	341.3	1575	1.8
Pseudocalanus spp. C-4 F	13	1024.0	1429	1.7
Pseudocalanus spp. - adult M	12	1024.0	1319	1.5
Larvacea	5	2048.0	1099	1.3
Calanus marshallae C-2	14	341.3	513	0.6
Chaetognatha 5-20mm	138	32.0	474	0.6
Polychaeta <5mm	2	2048.0	440	0.5
Thecosomata <5mm	2	2048.0	440	0.5
Other Copepoda <2mm	2	2048.0	440	0.5
Metriididae C-2	2	2048.0	440	0.5
Cirripedia - nauplius <5mm	2	2048.0	440	0.5
Calanus marshallae C-1	11	341.3	403	0.5
Acartia spp.	69	53.9	399	0.5
Hyperiididae <5mm	1	2048.0	220	0.3
Calanus marshallae C-3	4	341.3	147	0.2
Unidentified Calanoida C-2	3	341.3	110	0.1
Euphausiacea - calyptopis 1	17	53.9	98	0.1
Calanus marshallae C-4	11	53.9	64	0.1
Euphausiacea - calyptopis 2	7	53.9	40	< 0.1
Neocalanus plumchrus C-3	1	341.3	37	< 0.1
Calanus marshallae C-5	6	53.9	35	< 0.1
Chaetognatha >20mm	7	32.0	24	< 0.1
Calanus marshallae - adult F	4	53.9	23	< 0.1
Euphausiacea - calyptopis 3	3	53.9	17	< 0.1
Neocalanus cristatus C-4	5	32.0	17	< 0.1
Cnidaria - medusa >5mm	4	32.0	14	< 0.1
Calanus marshallae - adult M	2	53.9	12	< 0.1
Thysanoessa inermis A&J	3	32.0	10	< 0.1
Metridia pacifica - adult F	1	53.9	6	< 0.1
Euphausiacea - furcilia	1	53.9	6	< 0.1
Eucalanus bungii - adult F	1	32.0	3	< 0.1
Neocalanus cristatus C-5	1	32.0	3	< 0.1
Eucalanus bungii C-5 F	1	32.0	3	< 0.1

86024

100.

STA. 093 56 59.3 N 155 40.7 W 10 May 86 22:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
296 46 - 78 307.2 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	116	1024.0	3867	36.6
Metriididae C-2	27	1024.0	900	8.5
Other Copepoda <2mm	24	1024.0	800	7.6
Pseudocalanus spp. - adult F	21	1024.0	700	6.6
Pseudocalanus spp. - adult M	20	1024.0	667	6.3
Other Copepoda - nauplius	18	1024.0	600	5.7
Metriididae C-1	10	1024.0	333	3.2
Invertebrata - egg <5mm	9	1024.0	300	2.8
Neocalanus plumchrus C-5	42	204.8	280	2.7
Neocalanus plumchrus C-4	37	204.8	247	2.3
Metridia pacifica C-4	36	204.8	240	2.3
?Pseudocalanus spp. C-1	7	1024.0	233	2.2
Pseudocalanus spp. C-5 F	34	204.8	227	2.1
Pseudocalanus spp. C-5 M	31	204.8	207	2.0
Metriididae C-3	6	1024.0	200	1.9
?Pseudocalanus spp. C-2	4	1024.0	133	1.3
?Pseudocalanus spp. C-3	4	1024.0	133	1.3
Larvacea	3	1024.0	100	0.9
Pseudocalanus spp. C-4 F	11	204.8	73	0.7
Metridia pacifica C-5 M	61	27.7	55	0.5
Pseudocalanus spp. C-4 M	7	204.8	47	0.4
Euphausiacea - calyptopis 1	1	1024.0	33	0.3
Cirripedia - cypris <5mm	1	1024.0	33	0.3
Chaetognatha 5-20mm	61	16.0	32	0.3
Calanus marshallae C-4	23	27.7	21	0.2
Calanus marshallae - adult F	18	27.7	16	0.2
Acartia spp.	2	204.8	13	0.1
Calanus marshallae C-3	14	27.7	13	0.1
Neocalanus cristatus C-4	20	16.0	10	0.1
Calanus marshallae C-2	9	27.7	8	0.1
Neocalanus plumchrus C-3	7	27.7	6	0.1
Calanus marshallae - adult M	7	27.7	6	0.1
Calanus marshallae C-5	5	27.7	5	< 0.1
Chaetognatha >20mm	7	16.0	4	< 0.1
Neocalanus cristatus C-5	7	16.0	4	< 0.1
Calanus marshallae C-1	3	27.7	3	< 0.1
Thysanoessa inermis A&J	5	16.0	3	< 0.1
Unidentified Calanoida C-3	2	27.7	2	< 0.1
Metridia pacifica C-5 F	1	27.7	1	< 0.1
Neocalanus cristatus C-3	1	27.7	1	< 0.1
Unidentified Calanoida C-2	1	27.7	1	< 0.1
Neocalanus cristatus C-2	1	27.7	1	< 0.1
Unidentified Calanoida C-1	1	27.7	1	< 0.1
Cnidaria - medusa >5mm	1	16.0	1	< 0.1
Thysanoessa spinifera A&J	1	16.0	1	< 0.1
Euphausia pacifica A&J	1	16.0	1	< 0.1

10559 100.

STA. 093 56 59.3 N 155 40.7 W 10 May 86 22:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
296 77 - 99 116.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	166	128.0	1822	30.8
Other Copepoda <2mm	91	128.0	999	16.9
Pseudocalanus spp. - adult F	48	128.0	527	8.9
Metriididae C-2	46	128.0	505	8.5
Metriididae C-1	38	128.0	417	7.1
Pseudocalanus spp. - adult M	31	128.0	340	5.8
Other Copepoda - nauplius	29	128.0	318	5.4
Metriididae C-3	26	128.0	285	4.8
Larvacea	14	128.0	154	2.6
Metridia pacifica C-5 M	50	25.6	110	1.9
Metridia pacifica C-4	48	25.6	105	1.8
Neocalanus plumchrus C-5	29	25.6	64	1.1
Pseudocalanus spp. C-5 M	21	25.6	46	0.8
Pseudocalanus spp. C-5 F	19	25.6	42	0.7
?Pseudocalanus spp. C-1	3	128.0	33	0.6
Invertebrata - egg <5mm	3	128.0	33	0.6
?Pseudocalanus spp. C-3	2	128.0	22	0.4
Chaetognatha 5-20mm	88	2.0	15	0.3
Euphausiacea - nauplius	1	128.0	11	0.2
Metridia pacifica C-5 F	5	25.6	11	0.2
Neocalanus plumchrus C-4	30	3.5	9	0.2
Neocalanus cristatus C-4	41	2.0	7	0.1
Metridia pacifica - adult F	17	3.5	5	0.1
Calanus marshallae C-5	13	3.5	4	0.1
Pseudocalanus spp. C-4 F	13	3.5	4	0.1
Calanus marshallae - adult M	12	3.5	4	0.1
Calanus marshallae - adult F	9	3.5	3	< 0.1
Pseudocalanus spp. C-4 M	9	3.5	3	< 0.1
Neocalanus cristatus C-5	15	2.0	3	< 0.1
Chaetognatha >20mm	12	2.0	2	< 0.1
Cnidaria - medusa >5mm	6	2.0	1	< 0.1
Calanus marshallae C-4	3	3.5	1	< 0.1
Calanus marshallae C-3	3	3.5	1	< 0.1
Thysanoessa inermis A&J	5	2.0	1	< 0.1
Neocalanus plumchrus C-3	2	3.5	1	< 0.1
Eucalanus bungii C-5 F	2	2.0	< 1	< 0.1
Neocalanus plumchrus C-2	1	3.5	< 1	< 0.1
Calanus marshallae C-2	1	3.5	< 1	< 0.1
Euphausiacea - furcilia	1	3.5	< 1	< 0.1
Neocalanus cristatus C-3	1	3.5	< 1	< 0.1
Thysanoessa spinifera A&J	1	2.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	2.0	< 1	< 0.1
Hyperiididea >5mm	1	2.0	< 1	< 0.1
			5907	100.

STA. 093 56 59.3 N 155 40.7 W 10 May 86 22:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
296 99 - 147 222.7 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	90	256.0	1034	19.1
Other Copepoda <2mm	71	256.0	816	15.1
Metriididae C-1	67	256.0	770	14.2
Metriididae C-2	35	256.0	402	7.4
Other Copepoda - nauplius	34	256.0	391	7.2
Pseudocalanus spp. - adult F	33	256.0	379	7.0
Pseudocalanus spp. - adult M	30	256.0	345	6.4
Metriididae C-3	14	256.0	161	3.0
Metridia pacifica C-5 M	66	51.2	152	2.8
Invertebrata - egg <5mm	12	256.0	138	2.6
Metridia pacifica C-5 F	38	51.2	87	1.6
Pseudocalanus spp. C-5 M	37	51.2	85	1.6
Euphausiacea - nauplius	7	256.0	80	1.5
Pseudocalanus spp. C-5 F	35	51.2	80	1.5
Metridia pacifica C-4	26	51.2	60	1.1
Larvacea	5	256.0	57	1.1
Metridia pacifica - adult F	178	6.9	55	1.0
Cirripedia - nauplius <5mm	4	256.0	46	0.9
Pseudocalanus spp. C-4 F	19	51.2	44	0.8
Pseudocalanus spp. C-4 M	16	51.2	37	0.7
?Pseudocalanus spp. C-3	3	256.0	34	0.6
Polychaeta <5mm	3	256.0	34	0.6
Neocalanus plumchrus C-5	107	6.9	33	0.6
?Pseudocalanus spp. C-2	2	256.0	23	0.4
Neocalanus plumchrus C-4	46	6.9	14	0.3
Chaetognatha 5-20mm	57	4.0	10	0.2
Neocalanus cristatus C-4	55	4.0	10	0.2
Calanus marshallae C-4	12	6.9	4	0.1
Acartia spp.	11	6.9	3	0.1
Calanus marshallae C-3	10	6.9	3	0.1
Calanus marshallae C-2	9	6.9	3	0.1
Calanus marshallae C-5	9	6.9	3	0.1
Calanus marshallae - adult M	7	6.9	2	< 0.1
Chaetognatha >20mm	9	4.0	2	< 0.1
Calanus marshallae - adult F	5	6.9	2	< 0.1
Neocalanus cristatus C-5	7	4.0	1	< 0.1
Neocalanus plumchrus C-3	4	6.9	1	< 0.1
Thysanoessa inermis A&J	3	4.0	1	< 0.1
Other Copepoda >5mm	3	4.0	1	< 0.1
Cnidaria - medusa >5mm	2	4.0	< 1	< 0.1
Eucalanus bungii - adult M	2	4.0	< 1	< 0.1
Euphausiacea - calyptopis 1	1	6.9	< 1	< 0.1
Metridia spp. - adult F	1	6.9	< 1	< 0.1
Unidentified Calanoida C-3	1	6.9	< 1	< 0.1
Metridia spp. - adult M	1	6.9	< 1	< 0.1
Eucalanus bungii C-5 M	1	4.0	< 1	< 0.1
Siphonophora >5mm	1	4.0	< 1	< 0.1

----- 5407
----- 100.

STA. 093 56 59.3 N 155 40.7 W 10 May 86 22:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
296 149 - 214 153.2 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	132	1024.0	8824	20.5
Pseudocalanus spp. - adult F	51	1024.0	3409	7.9
Other Copepoda <2mm	46	1024.0	3075	7.2
Euphausiacea - nauplius	37	1024.0	2473	5.8
?Pseudocalanus spp. C-3	35	1024.0	2340	5.4
Cirripectida - cypris <5mm	31	1024.0	2072	4.8
Pseudocalanus spp. - adult M	30	1024.0	2005	4.7
Pseudocalanus spp. C-5 M	28	1024.0	1872	4.4
Other Copepoda - nauplius	27	1024.0	1805	4.2
Pseudocalanus spp. C-5 F	27	1024.0	1805	4.2
Invertebrata - egg <5mm	26	1024.0	1738	4.0
?Pseudocalanus spp. C-2	25	1024.0	1671	3.9
Pseudocalanus spp. C-4 M	20	1024.0	1337	3.1
Metridiidae C-3	14	1024.0	936	2.2
Metridiidae C-2	13	1024.0	869	2.0
Pseudocalanus spp. C-4 F	13	1024.0	869	2.0
Neocalanus plumchrus C-5	106	113.8	787	1.8
Acartia spp.	10	1024.0	668	1.6
?Pseudocalanus spp. C-1	10	1024.0	668	1.6
Metridiidae C-1	9	1024.0	602	1.4
Metridia pacifica - adult F	64	113.8	475	1.1
Neocalanus plumchrus C-4	50	113.8	371	0.9
Metridia pacifica C-5 M	45	113.8	334	0.8
Cirripectida - nauplius <5mm	5	1024.0	334	0.8
Metridia pacifica C-5 F	38	113.8	282	0.7
Metridia pacifica C-4	34	113.8	253	0.6
Metridia pacifica - adult M	18	113.8	134	0.3
Thecosomata <5mm	2	1024.0	134	0.3
Euphausiacea - calyptopis 1	2	1024.0	134	0.3
Ostracoda <5mm	2	1024.0	134	0.3
Polychaeta <5mm	2	1024.0	134	0.3
Chaetognatha 5-20mm	88	16.0	92	0.2
Hyperiididae <5mm	1	1024.0	67	0.2
Calanus marshallae C-3	8	113.8	59	0.1
Calanus marshallae C-4	4	113.8	30	0.1
Calanus marshallae C-2	3	113.8	22	0.1
Calanus pacificus C-5	3	113.8	22	0.1
Neocalanus plumchrus C-3	3	113.8	22	0.1
Metridia spp. - adult M	3	113.8	22	0.1
Calanus marshallae - adult M	3	113.8	22	0.1
Calanus marshallae - adult F	2	113.8	15	< 0.1
Neocalanus cristatus C-4	12	16.0	13	< 0.1
Calanus marshallae C-5	1	113.8	7	< 0.1
Metridia spp. - adult F	1	113.8	7	< 0.1
Neocalanus plumchrus C-2	1	113.8	7	< 0.1
Metridia spp. C-5 M	1	113.8	7	< 0.1
Neocalanus cristatus C-5	7	16.0	7	< 0.1

Chaetognatha >20mm	5	16.0	5	< 0.1
Siphonophora >5mm	3	16.0	3	< 0.1
Other Copepoda >5mm	2	16.0	2	< 0.1
Eucalanus bungii - adult M	2	16.0	2	< 0.1
Mysidacea >5mm	1	16.0	1	< 0.1
Gammaridea >5mm	1	16.0	1	< 0.1
Cnidaria - medusa >5mm	1	16.0	1	< 0.1
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		42986	100.	

STA. 095 56 56.2 N 155 37.2 W 11 May 86 4:33

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 3 - 14 124.7 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	159	1024.0	13057	38.6
Pseudocalanus spp. - adult F	27	1024.0	2217	6.6
Invertebrata - egg <5mm	26	1024.0	2135	6.3
?Pseudocalanus spp. C-3	24	1024.0	1971	5.8
Pseudocalanus spp. C-4 M	23	1024.0	1889	5.6
Pseudocalanus spp. C-5 M	21	1024.0	1724	5.1
Other Copepoda - nauplius	19	1024.0	1560	4.6
?Pseudocalanus spp. C-2	18	1024.0	1478	4.4
?Pseudocalanus spp. C-1	16	1024.0	1314	3.9
Euphausiacea - nauplius	15	1024.0	1232	3.6
Pseudocalanus spp. C-4 F	15	1024.0	1232	3.6
Pseudocalanus spp. C-5 F	11	1024.0	903	2.7
Pseudocalanus spp. - adult M	8	1024.0	657	1.9
Neocalanus plumchrus C-4	60	113.8	548	1.6
Neocalanus plumchrus C-5	46	113.8	420	1.2
Acartia spp.	34	113.8	310	0.9
Other Copepoda <2mm	2	1024.0	164	0.5
Cirripedia - nauplius <5mm	2	1024.0	164	0.5
Calanus marshallae C-2	66	25.0	132	0.4
Chaetognatha 5-20mm	93	16.0	119	0.4
Calanus marshallae C-3	51	25.0	102	0.3
Cirripedia - cypris <5mm	1	1024.0	82	0.2
Gastropoda <5mm	1	1024.0	82	0.2
Neocalanus plumchrus C-3	33	25.0	66	0.2
Euphausiacea - calyptopis 1	31	25.0	62	0.2
Calanus marshallae C-4	21	25.0	42	0.1
Calanus marshallae C-1	14	25.0	28	0.1
Metridia pacifica C-5 M	14	25.0	28	0.1
Euphausiacea - calyptopis 2	11	25.0	22	0.1
Euphausiacea - calyptopis 3	8	25.0	16	< 0.1
Chaetognatha >20mm	8	16.0	10	< 0.1
Neocalanus plumchrus C-2	5	25.0	10	< 0.1
Metridia pacifica C-4	4	25.0	8	< 0.1
Metridia pacifica - adult F	4	25.0	8	< 0.1
Euphausiacea - furcilia	4	25.0	8	< 0.1
Calanus marshallae - adult F	3	25.0	6	< 0.1
Metridia pacifica C-5 F	2	25.0	4	< 0.1
Calanus marshallae C-5	2	25.0	4	< 0.1
Cnidaria - medusa >5mm	2	16.0	3	< 0.1
Metridia pacifica - adult M	1	25.0	2	< 0.1
Unidentified Calanoida C-2	1	25.0	2	< 0.1
Unidentified Calanoida C-3	1	25.0	2	< 0.1
Neocalanus plumchrus C-1	1	25.0	2	< 0.1
Thysanoessa inermis A&J	1	16.0	1	< 0.1
Neocalanus cristatus C-4	1	16.0	1	< 0.1
			74514	100.

STA. 095 56 56.2 N 155 37.2 W 11 May 86 4:33

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 14 - 30 139.8 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	183	2048.0	26816	36.0
Other Copepoda - nauplius	46	2048.0	6741	9.0
?Pseudocalanus spp. C-2	34	2048.0	4982	6.7
Euphausiacea - nauplius	33	2048.0	4836	6.5
?Pseudocalanus spp. C-1	31	2048.0	4543	6.1
?Pseudocalanus spp. C-3	30	2048.0	4396	5.9
Pseudocalanus spp. C-4 F	17	2048.0	2491	3.3
Pseudocalanus spp. - adult F	16	2048.0	2345	3.1
Pseudocalanus spp. C-5 M	15	2048.0	2198	2.9
Invertebrata - egg <5mm	15	2048.0	2198	2.9
Pseudocalanus spp. C-4 M	13	2048.0	1905	2.6
Pseudocalanus spp. C-5 F	13	2048.0	1905	2.6
Neocalanus plumchirus C-5	56	409.6	1641	2.2
Neocalanus plumchirus C-4	48	409.6	1407	1.9
Pseudocalanus spp. - adult M	7	2048.0	1026	1.4
Larvacea	6	2048.0	879	1.2
Acartia spp.	29	409.6	850	1.1
Metridia pacifica C-5 M	23	409.6	674	0.9
Other Copepoda <2mm	3	2048.0	440	0.6
Metridia pacifica - adult F	14	409.6	410	0.6
Cirripedia - nauplius <5mm	2	2048.0	293	0.4
Calanus marshallae C-2	8	409.6	234	0.3
Chaetognatha 5-20mm	154	16.0	176	0.2
Calanus marshallae C-3	6	409.6	176	0.2
Calanus marshallae C-1	6	409.6	176	0.2
Neocalanus plumchirus C-3	5	409.6	147	0.2
Metridia pacifica C-4	5	409.6	147	0.2
Thecosomata <5mm	1	2048.0	147	0.2
Metridia pacifica C-5 F	3	409.6	88	0.1
Calanus marshallae C-4	28	29.7	60	0.1
Neocalanus plumchirus C-1	1	409.6	29	< 0.1
Metridia spp. - adult F	1	409.6	29	< 0.1
Neocalanus plumchirus C-2	1	409.6	29	< 0.1
Euphausiacea - calyptopis 1	10	29.7	21	< 0.1
Euphausiacea - calyptopis 3	7	29.7	15	< 0.1
Chaetognatha >20mm	11	16.0	13	< 0.1
Cnidaria - medusa >5mm	10	16.0	11	< 0.1
Calanus marshallae C-5	5	29.7	11	< 0.1
Euphausiacea - calyptopis 2	4	29.7	9	< 0.1
Neocalanus cristatus C-4	4	16.0	5	< 0.1
Euphausiacea - furcilia	2	29.7	4	< 0.1
Calanus marshallae - adult F	2	29.7	4	< 0.1
Neocalanus cristatus C-5	2	16.0	2	< 0.1
Thysanoessa inermis A&J	2	16.0	2	< 0.1
Thysanoessa spinifera A&J	2	16.0	2	< 0.1
Calanus pacificus C-5	1	29.7	2	< 0.1

74514

100.

STA. 095 56 56.2 N 155 37.2 W 11 May 86 4:33

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 31 - 44 140.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	109	1024.0	7949	23.3
Pseudocalanus spp. - adult F	45	1024.0	3282	9.6
Metriididae C-2	39	1024.0	2844	8.3
Other Copepoda - nauplius	38	1024.0	2771	8.1
Pseudocalanus spp. - adult M	34	1024.0	2480	7.3
Metridia pacifica C-4	23	1024.0	1677	4.9
Euphausiacea - nauplius	17	1024.0	1240	3.6
Metriididae C-1	16	1024.0	1167	3.4
?Pseudocalanus spp. C-3	13	1024.0	948	2.8
Invertebrata - egg <5mm	11	1024.0	802	2.4
?Pseudocalanus spp. C-2	11	1024.0	802	2.4
Pseudocalanus spp. C-4 F	10	1024.0	729	2.1
Metridia pacifica - adult F	10	1024.0	729	2.1
Cirripedia - nauplius <5mm	9	1024.0	656	1.9
Pseudocalanus spp. C-5 M	9	1024.0	656	1.9
Metridia pacifica C-5 F	8	1024.0	583	1.7
Pseudocalanus spp. C-4 M	8	1024.0	583	1.7
Metriididae C-3	8	1024.0	583	1.7
?Pseudocalanus spp. C-1	7	1024.0	511	1.5
Pseudocalanus spp. C-5 F	7	1024.0	511	1.5
Other Copepoda <2mm	5	1024.0	365	1.1
Neocalanus plumchrus C-4	40	113.8	324	1.0
Cladocera <5mm	4	1024.0	292	0.9
Cirripedia - cypris <5mm	3	1024.0	219	0.6
Metridia spp. - adult F	3	1024.0	219	0.6
Metridia pacifica C-5 M	3	1024.0	219	0.6
Neocalanus plumchrus C-5	22	113.8	178	0.5
Chaetognatha 5-20mm	304	8.0	173	0.5
Larvacea	2	1024.0	146	0.4
Thecosomata <5mm	1	1024.0	73	0.2
Echinodermata - larva <5mm	1	1024.0	73	0.2
Calanus marshallae C-3	8	113.8	65	0.2
Acartia spp.	7	113.8	57	0.2
Neocalanus plumchrus C-3	6	113.8	49	0.1
Neocalanus cristatus C-4	54	8.0	31	0.1
Calanus marshallae - adult F	26	14.0	26	0.1
Calanus marshallae C-1	3	113.8	24	0.1
Cnidaria - medusa >5mm	32	8.0	18	0.1
Calanus marshallae C-4	11	14.0	11	< 0.1
Neocalanus cristatus C-5	18	8.0	10	< 0.1
Calanus marshallae C-2	1	113.8	8	< 0.1
Chaetognatha >20mm	12	8.0	7	< 0.1
Calanus marshallae C-5	6	14.0	6	< 0.1
Euphausiacea - calyptopis 1	3	14.0	3	< 0.1
Euphausiacea - calyptopis 2	2	14.0	2	< 0.1
Other Copepoda >5mm	2	8.0	1	< 0.1
Calanus marshallae - adult M	1	14.0	1	< 0.1

Euphausiacea - furcilia	1	14.0	1	< 0.1
Euphausia pacifica A&J	1	8.0	1	< 0.1
Thysanoessa spinifera A&J	1	8.0	1	< 0.1
Hyperiidea >5mm	1	8.0	1	< 0.1
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		34107	100.	

STA. 095 56 56.2 N 155 37.2 W 11 May 86 4:33

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 43 - 59 427.5 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	157	1024.0	3760	25.9
Pseudocalanus spp. - adult F	62	1024.0	1485	10.2
Other Copepoda - nauplius	61	1024.0	1461	10.0
Metridia pacifica C-5 M	50	1024.0	1198	8.2
Metriididae C-2	49	1024.0	1174	8.1
Metriididae C-3	42	1024.0	1006	6.9
Metridia pacifica C-4	33	1024.0	790	5.4
Pseudocalanus spp. - adult M	31	1024.0	742	5.1
Metriididae C-2	28	1024.0	671	4.6
Pseudocalanus spp. C-5 F	16	1024.0	383	2.6
Invertebrata - egg <5mm	10	1024.0	240	1.6
Other Copepoda <2mm	9	1024.0	216	1.5
Neocalanus plumchrus C-5	41	204.8	196	1.4
Pseudocalanus spp. C-4 M	7	1024.0	168	1.2
Neocalanus plumchrus C-4	31	204.8	148	1.0
Pseudocalanus spp. C-5 M	4	1024.0	96	0.7
?Pseudocalanus spp. C-2	4	1024.0	96	0.7
Larvacea	4	1024.0	96	0.7
Euphausiacea - nauplius	4	1024.0	96	0.7
Pseudocalanus spp. C-4 F	4	1024.0	96	0.7
?Pseudocalanus spp. C-1	4	1024.0	96	0.7
?Pseudocalanus spp. C-3	2	1024.0	48	0.3
Chaetognatha 5-20mm	96	16.0	36	0.2
Metridia pacifica - adult F	43	27.7	28	0.2
Calanus marshallae - adult F	42	27.7	27	0.2
Metridia pacifica C-5 F	1	1024.0	24	0.2
Acartia spp.	1	1024.0	24	0.2
Polychaeta <5mm	1	1024.0	24	0.2
Cirripedia - cypris <5mm	1	1024.0	24	0.2
Cirripedia - nauplius <5mm	1	1024.0	24	0.2
Calanus marshallae C-4	30	27.7	19	0.1
Neocalanus cristatus C-4	29	16.0	11	0.1
Calanus marshallae C-3	13	27.7	8	0.1
Neocalanus cristatus C-5	20	16.0	7	0.1
Calanus marshallae C-5	11	27.7	7	< 0.1
Chaetognatha >20mm	13	16.0	5	< 0.1
Euphausia pacifica A&J	12	16.0	4	< 0.1
Thysanoessa inermis A&J	6	16.0	2	< 0.1
Calanus marshallae - adult M	2	27.7	1	< 0.1
Neocalanus plumchrus C-3	2	27.7	1	< 0.1
Thysanoessa spinifera A&J	2	16.0	1	< 0.1
Calanus marshallae C-2	1	27.7	1	< 0.1
Metridia pacifica - adult M	1	27.7	1	< 0.1
Other Copepoda >5mm	1	16.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	16.0	< 1	< 0.1
			14542	100.

STA. 095 56 56.2 N 155 37.2 W 11 May 86 4:33

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 60 - 78 274.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	79	1024.0	2948	21.5
Pseudocalanus spp. - adult F	71	1024.0	2649	19.3
Metriididae C-2	35	1024.0	1306	9.5
Pseudocalanus spp. - adult M	27	1024.0	1007	7.3
Metridia pacifica C-5 M	27	1024.0	1007	7.3
Metridia pacifica C-4	19	1024.0	709	5.2
Metriididae C-3	19	1024.0	709	5.2
Metriididae C-1	12	1024.0	448	3.3
Neocalanus plumchrus C-4	36	341.3	448	3.3
Metridia pacifica - adult F	34	341.3	423	3.1
Other Copepoda - nauplius	11	1024.0	410	3.0
Neocalanus plumchrus C-5	31	341.3	386	2.8
Other Copepoda <2mm	8	1024.0	298	2.2
Pseudocalanus spp. C-5 F	18	341.3	224	1.6
Metridia pacifica C-5 F	5	1024.0	187	1.4
Pseudocalanus spp. C-5 M	13	341.3	162	1.2
Invertebrata - egg	3	1024.0	112	0.8
Pseudocalanus spp. C-4 F	5	341.3	62	0.5
?Pseudocalanus spp. C-1	1	1024.0	37	0.3
Polychaeta <5mm	1	1024.0	37	0.3
Metridia spp. - adult F	3	341.3	37	0.3
Calanus marshallae - adult F	53	15.3	30	0.2
Chaetognatha 5-20mm	73	8.0	21	0.2
Acartia spp.	1	341.3	12	0.1
Neocalanus cristatus C-4	41	8.0	12	0.1
Calanus marshallae C-5	18	15.3	10	0.1
Calanus marshallae C-4	16	15.3	9	0.1
Calanus marshallae - adult M	8	15.3	4	< 0.1
Calanus marshallae C-3	7	15.3	4	< 0.1
Neocalanus cristatus C-5	10	8.0	3	< 0.1
Chaetognatha >20mm	8	8.0	2	< 0.1
Euphausia pacifica A&J	5	8.0	1	< 0.1
Thysanoessa inermis A&J	3	8.0	1	< 0.1
Hyperiidea >5mm	2	8.0	1	< 0.1
Cnidaria - medusa >5mm	1	8.0	< 1	< 0.1
Euphausiacea A&J damaged	1	8.0	< 1	< 0.1
Eucalanus bungii - adult M	1	8.0	< 1	< 0.1
Other Copepoda >5mm	1	8.0	< 1	< 0.1
			13718	100.

STA. 095 56 56.2 N 155 37.2 W 11 May 86 4:33

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 78 - 97 188.5 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	145	256.0	1969	25.3
Other Copepoda <2mm	93	256.0	1263	16.2
Other Copepoda - nauplius	49	256.0	665	8.5
Pseudocalanus spp. - adult F	49	256.0	665	8.5
Pseudocalanus spp. - adult M	46	256.0	625	8.0
Metriididae C-2	42	256.0	570	7.3
Metriididae C-1	36	256.0	489	6.3
Metriididae C-3	24	256.0	326	4.2
Metridia pacifica C-5 F	13	256.0	177	2.3
Metridia pacifica C-5 M	13	256.0	177	2.3
Metridia pacifica C-4	97	28.4	146	1.9
Metridia pacifica - adult F	82	28.4	124	1.6
Invertebrata - egg <5mm	9	256.0	122	1.6
Neocalanus plumchrus C-5	32	28.4	48	0.6
Neocalanus plumchrus C-4	30	28.4	45	0.6
Pseudocalanus spp. C-5 M	3	256.0	41	0.5
Pseudocalanus spp. C-5 F	3	256.0	41	0.5
?Pseudocalanus spp. C-1	3	256.0	41	0.5
Metridia spp. - adult F	22	28.4	33	0.4
Larvacea	2	256.0	27	0.3
Pseudocalanus spp. C-4 F	2	256.0	27	0.3
Thecosomata <5mm	2	256.0	27	0.3
Chaetognatha 5-20mm	114	4.0	24	0.3
Ostracoda <5mm	1	256.0	14	0.2
Cirripedia - cypris <5mm	1	256.0	14	0.2
Pseudocalanus spp. C-4 M	1	256.0	14	0.2
?Pseudocalanus spp. C-3	1	256.0	14	0.2
Cirripedia - nauplius <5mm	1	256.0	14	0.2
Hyperiididae <5mm	1	256.0	14	0.2
Calanus marshallae - adult F	28	6.2	9	0.1
Calanus marshallae - adult M	21	6.2	7	0.1
Neocalanus cristatus C-4	30	4.0	6	0.1
Calanus marshallae C-5	15	6.2	5	0.1
Calanus marshallae C-4	10	6.2	3	< 0.1
Chaetognatha >20mm	13	4.0	3	< 0.1
Metridia pacifica - adult M	1	28.4	2	< 0.1
Neocalanus cristatus C-5	5	4.0	1	< 0.1
Cnidaria - medusa >5mm	4	4.0	1	< 0.1
Thysanoessa inermis A&J	4	4.0	1	< 0.1
Calanus pacificus C-5	2	6.2	1	< 0.1
Thysanoessa spinifera A&J	2	4.0	< 1	< 0.1
Euphausia pacifica A&J	2	4.0	< 1	< 0.1
Calanus marshallae C-4	1	6.2	< 1	< 0.1
			7793	100.

STA. 095 56 56.2 N 155 37.2 W 11 May 86 4:33

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 98 - 150 365.5 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	69	256.0	483	28.1
Other Copepoda <2mm	47	256.0	329	19.2
Metriididae C-1	27	256.0	189	11.0
Metriididae C-2	20	256.0	140	8.2
Pseudocalanus spp. - adult M	19	256.0	133	7.7
Pseudocalanus spp. - adult F	14	256.0	98	5.7
Metridia pacifica - adult F	37	51.2	52	3.0
Metriididae C-3	7	256.0	49	2.9
Other Copepoda - nauplius	7	256.0	49	2.9
Metridia pacifica C-5 F	29	51.2	41	2.4
Metridia pacifica C-4	27	51.2	38	2.2
Metridia pacifica C-5 M	16	51.2	22	1.3
Polychaeta <5mm	3	256.0	21	1.2
Metridia spp. - adult F	9	51.2	13	0.7
Pseudocalanus spp. C-5 F	23	12.2	8	0.4
Cirripedia - nauplius <5mm	1	256.0	7	0.4
Cladocera <5mm	1	256.0	7	0.4
Thaliacea <5mm	1	256.0	7	0.4
Pseudocalanus spp. C-5 M	20	12.2	7	0.4
Neocalanus plumchrus C-5	14	12.2	5	0.3
Neocalanus cristatus C-4	21	8.0	5	0.3
Calanus marshallae - adult M	12	12.2	4	0.2
Neocalanus plumchrus C-4	9	12.2	3	0.2
Neocalanus cristatus C-5	8	8.0	2	0.1
Metridia pacifica - adult M	1	51.2	1	0.1
Calanus marshallae C-5	4	12.2	1	0.1
Calanus marshallae C-4	3	12.2	1	0.1
Pseudocalanus spp. C-4 F	3	12.2	1	0.1
Calanus marshallae - adult F	2	12.2	1	< 0.1
Hyperiididae >5mm	3	8.0	1	< 0.1
Thysanoessa spinifera A&J	3	8.0	1	< 0.1
Euphausiacea A&J damaged	2	8.0	< 1	< 0.1
Acartia spp.	1	12.2	< 1	< 0.1
Eucalanus bungii C-5 F	1	8.0	< 1	< 0.1
Eucalanus bungii - adult M	1	8.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	8.0	< 1	< 0.1
			1719	100.

STA. 095 56 56.2 N 155 37.2 W 11 May 86 4:33

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
293 151 - 252 728.0 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	125	512.0	879	39.5
Oithona spp.	36	512.0	253	11.4
Metriididae C-2	25	512.0	176	7.9
Metridia pacifica C-4	21	512.0	148	6.6
Metridia pacifica C-5 F	19	512.0	134	6.0
Metridia pacifica C-5 M	16	512.0	113	5.1
Metridia pacifica - adult M	15	512.0	105	4.7
Other Copepoda - nauplius	13	512.0	91	4.1
Metridia pacifica - adult F	13	512.0	91	4.1
Metriididae C-3	9	512.0	63	2.8
Pseudocalanus spp. - adult F	30	102.4	42	1.9
Neocalanus plumchrus C-5	85	24.4	28	1.3
Larvacea	3	512.0	21	0.9
Ostracoda <5mm	3	512.0	21	0.9
Cirripedia - nauplius <5mm	2	512.0	14	0.6
Mysidacea <5mm	2	512.0	14	0.6
Pseudocalanus spp. - adult M	6	102.4	8	0.4
Pseudocalanus spp. C-4 M	1	512.0	7	0.3
Pseudocalanus spp. C-5 M	15	24.4	5	0.2
Chaetognatha 5-20mm	68	4.0	4	0.2
Pseudocalanus spp. C-5 F	5	24.4	2	0.1
Calanus marshallae - adult M	20	6.0	2	0.1
Neocalanus cristatus C-4	22	4.0	1	0.1
Calanus marshallae C-5	11	6.0	1	< 0.1
Neocalanus plumchrus C-4	2	24.4	1	< 0.1
Neocalanus cristatus C-5	11	4.0	1	< 0.1
Other Copepoda >5mm	7	4.0	< 1	< 0.1
Neocalanus plumchrus - adult F	1	24.4	< 1	< 0.1
Calanus marshallae - adult F	4	6.0	< 1	< 0.1
Calanus marshallae C-4	4	6.0	< 1	< 0.1
Mysidacea >5mm	5	4.0	< 1	< 0.1
Calanus pacificus C-5	3	6.0	< 1	< 0.1
Chaetognatha >20mm	4	4.0	< 1	< 0.1
Gammaridea >5mm	3	4.0	< 1	< 0.1
Siphonophora >5mm	3	4.0	< 1	< 0.1
Eucalanus bungii - adult M	2	4.0	< 1	< 0.1
			2228	100.

STA. 119 56 37.2 N 156 24.9 W 13 May 86 18:30

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 2 - 15 102.7 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	135	1024.0	13463	22.5
Other Copepoda - nauplius	99	1024.0	9873	16.5
Euphausiacea - nauplius	65	1024.0	6482	10.8
Invertebrata - egg <5mm	55	1024.0	5485	9.2
?Pseudocalanus spp. C-1	41	1024.0	4089	6.8
?Pseudocalanus spp. C-2	31	1024.0	3092	5.2
Pseudocalanus spp. - adult F	29	1024.0	2892	4.8
?Pseudocalanus spp. C-3	27	1024.0	2693	4.5
Pseudocalanus spp. C-4 F	19	1024.0	1895	3.2
Acartia spp.	52	341.3	1728	2.9
Pseudocalanus spp. C-4 M	15	1024.0	1496	2.5
Pseudocalanus spp. C-5 M	40	341.3	1330	2.2
Neocalanus plumchrus C-5	32	341.3	1064	1.8
Pseudocalanus spp. - adult M	9	1024.0	898	1.5
Pseudocalanus spp. C-5 F	22	341.3	731	1.2
Larvacea	6	1024.0	598	1.0
Cirripedia - nauplius <5mm	3	1024.0	299	0.5
Calanus marshallae C-3	24	93.1	218	0.4
Calanus marshallae C-2	24	93.1	218	0.4
Euphausiacea - calyptopis 1	22	93.1	199	0.3
Other Copepoda <2mm	2	1024.0	199	0.3
Metriididae C-1	2	1024.0	199	0.3
Calanus marshallae C-1	16	93.1	145	0.2
Ostracoda <5mm	1	1024.0	100	0.2
Metriididae C-2	1	1024.0	100	0.2
Cirripedia - cypris <5mm	1	1024.0	100	0.2
Neocalanus plumchrus C-4	30	23.8	70	0.1
Calanus marshallae C-4	24	23.8	56	0.1
Euphausiacea - calyptopis 2	5	93.1	45	0.1
Calanus marshallae - adult F	11	23.8	25	< 0.1
Cnidaria - medusa >5mm	48	4.0	19	< 0.1
Chaetognatha 5-20mm	46	4.0	18	< 0.1
Calanus marshallae C-5	4	23.8	9	< 0.1
Euphausiacea - calyptopis 3	1	93.1	9	< 0.1
Unidentified Calanoida C-2	1	93.1	9	< 0.1
Eucalanus bungii - adult F	4	4.0	2	< 0.1
Gymnosomata >5mm	1	4.0	< 1	< 0.1
			59847	100.

STA. 119 56 37.2 N 156 24.9 W 13 May 86 18:30

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 16 - 30 132.8 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda - nauplius	55	2048.0	8481	18.1
Oithona spp.	54	2048.0	8327	17.7
Euphausiacea - nauplius	26	2048.0	4009	8.5
?Pseudocalanus spp. C-1	23	2048.0	3547	7.6
Pseudocalanus spp. - adult F	21	2048.0	3238	6.9
?Pseudocalanus spp. C-3	16	2048.0	2467	5.3
Pseudocalanus spp. - adult M	14	2048.0	2159	4.6
Invertebrata - egg <5mm	14	2048.0	2159	4.6
?Pseudocalanus spp. C-2	11	2048.0	1696	3.6
Larvacea	10	2048.0	1542	3.3
Pseudocalanus spp. C-5 M	35	409.6	1079	2.3
Acartia spp.	32	409.6	987	2.1
Pseudocalanus spp. C-5 F	28	409.6	864	1.8
Neocalanus plumchrus C-5	72	157.5	854	1.8
Pseudocalanus spp. C-4 M	25	409.6	771	1.6
Pseudocalanus spp. C-4 F	24	409.6	740	1.6
Other Copepoda <2mm	4	2048.0	617	1.3
Hyperiidia <5mm	3	2048.0	463	1.0
Euphausiacea - calyptopis 1	34	157.5	403	0.9
Cirripedia - cypris <5mm	2	2048.0	308	0.7
Cirripedia - nauplius <5mm	2	2048.0	308	0.7
Euphausiacea - furcilia	20	157.5	237	0.5
Calanus marshallae C-3	17	157.5	202	0.4
Calanus marshallae C-1	15	157.5	178	0.4
Thecosomata <5mm	1	2048.0	154	0.3
Gammaridea <5mm	1	2048.0	154	0.3
Metriididae C-1	1	2048.0	154	0.3
Polychaeta <5mm	1	2048.0	154	0.3
Echinodermata - larva <5mm	1	2048.0	154	0.3
Calanus marshallae C-2	12	157.5	142	0.3
Chaetognatha 5-20mm	74	16.0	89	0.2
Calanus marshallae C-4	43	26.6	86	0.2
Neocalanus plumchrus C-4	22	26.6	44	0.1
Calanus marshallae - adult F	17	26.6	34	0.1
Cnidaria - medusa >5mm	24	16.0	29	0.1
Euphausiacea - calyptopis 2	2	157.5	24	0.1
Euphausiacea - calyptopis 3	2	157.5	24	0.1
Calanus marshallae C-5	9	26.6	18	< 0.1
Neocalanus plumchrus C-3	1	157.5	12	< 0.1
Metridia pacifica C-4	5	26.6	10	< 0.1
Calanus marshallae - adult M	3	26.6	6	< 0.1
Metridia pacifica - adult F	2	26.6	4	< 0.1
Eucalanus bungii - adult F	3	16.0	4	< 0.1
Metridia spp. - adult F	1	26.6	2	< 0.1
Eucalanus bungii C-5 M	1	16.0	1	< 0.1
Neocalanus cristatus C-4	1	16.0	1	< 0.1

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46938	100.

STA. 119 56 37.2 N 156 24.9 W 13 May 86 18:30

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 30 - 45 157.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	116	2048.0	15043	21.7
Other Copepoda - nauplius	100	2048.0	12968	18.7
Euphausiacea - nauplius	65	2048.0	8429	12.2
?Pseudocalanus spp. C-2	38	2048.0	4928	7.1
?Pseudocalanus spp. C-1	29	2048.0	3761	5.4
?Pseudocalanus spp. C-3	24	2048.0	3112	4.5
Pseudocalanus spp. - adult F	22	2048.0	2853	4.1
Pseudocalanus spp. C-5 F	18	2048.0	2334	3.4
Pseudocalanus spp. - adult M	17	2048.0	2205	3.2
Invertebrata - egg <5mm	16	2048.0	2075	3.0
Acartia spp.	41	682.7	1772	2.6
Pseudocalanus spp. C-4 M	39	682.7	1686	2.4
Pseudocalanus spp. C-5 M	12	2048.0	1556	2.2
Pseudocalanus spp. C-4 F	29	682.7	1254	1.8
Neocalanus plumchrus C-5	47	292.6	871	1.3
Cirripedia - nauplius <5mm	6	2048.0	778	1.1
Other Copepoda <2mm	5	2048.0	648	0.9
Euphausiacea - calyptopis 1	28	292.6	519	0.7
Larvacea	3	2048.0	389	0.6
Calanus marshallae C-1	14	292.6	259	0.4
Calanus marshallae C-3	12	292.6	222	0.3
Calanus marshallae C-2	12	292.6	222	0.3
Polychaeta <5mm	1	2048.0	130	0.2
Gastropoda <5mm	1	2048.0	130	0.2
Foraminifera <5mm	1	2048.0	130	0.2
Cirripedia - cypris <5mm	1	2048.0	130	0.2
Thecosomata <5mm	1	2048.0	130	0.2
Metridiidae C-1	1	2048.0	130	0.2
Chaetognatha <5mm	1	2048.0	130	0.2
Hyperiididae <5mm	1	2048.0	130	0.2
Calanus marshallae C-4	64	15.2	62	0.1
Neocalanus plumchrus C-4	52	15.2	50	0.1
Metridia pacifica C-4	1	682.7	43	0.1
Metridia pacifica C-5 M	1	682.7	43	0.1
Euphausiacea - furcilia	66	5.3	22	< 0.1
Unidentified Calanoida C-2	1	292.6	19	< 0.1
Chaetognatha 5-20mm	67	4.0	17	< 0.1
Calanus marshallae - adult F	14	15.2	13	< 0.1
Calanus marshallae C-5	11	15.2	11	< 0.1
Cnidaria - medusa >5mm	39	4.0	10	< 0.1
Eucalanus bungii - adult F	8	4.0	2	< 0.1
Calanus marshallae - adult M	2	15.2	2	< 0.1
Calanus pacificus C-5	2	15.2	2	< 0.1
Chaetognatha >20mm	3	4.0	1	< 0.1
Neocalanus cristatus C-4	3	4.0	1	< 0.1
Neocalanus cristatus C-5	2	4.0	1	< 0.1
Gymnosomata >5mm	1	4.0	< 1	< 0.1

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69219	100.

STA. 119 56 37.2 N 156 24.9 W 13 May 86 18:30

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 45 - 61 150.7 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	108	1024.0	7337	27.1
Other Copepoda - nauplius	60	1024.0	4076	15.1
Euphausiacea - nauplius	32	1024.0	2174	8.0
?Pseudocalanus spp. C-3	27	1024.0	1834	6.8
Neocalanus plumchrus C-5	41	512.0	1393	5.1
Pseudocalanus spp. C-5 M	15	1024.0	1019	3.8
Pseudocalanus spp. - adult F	15	1024.0	1019	3.8
?Pseudocalanus spp. C-2	14	1024.0	951	3.5
?Pseudocalanus spp. C-1	14	1024.0	951	3.5
Pseudocalanus spp. C-5 M	20	512.0	679	2.5
Invertebrata - egg <5mm	10	1024.0	679	2.5
Pseudocalanus spp. C-5 F	18	512.0	611	2.3
Metriididae C-3	8	1024.0	543	2.0
Pseudocalanus spp. C-4 F	16	512.0	543	2.0
Pseudocalanus spp. C-4 M	14	512.0	476	1.8
Metriididae C-2	6	1024.0	408	1.5
Calanus marshallae C-3	9	512.0	306	1.1
Calanus marshallae C-1	8	512.0	272	1.0
Calanus marshallae C-2	8	512.0	272	1.0
Other Copepoda <2mm	3	1024.0	204	0.8
Calanus marshallae C-4	140	15.5	144	0.5
Metriididae C-1	2	1024.0	136	0.5
Chaetognatha <5mm	2	1024.0	136	0.5
Acartia spp.	81	15.5	83	0.3
Thecosomata <5mm	1	1024.0	68	0.3
Cladocera <5mm	1	1024.0	68	0.3
Ostracoda <5mm	1	1024.0	68	0.3
Gastropoda <5mm	1	1024.0	68	0.3
Polychaeta <5mm	1	1024.0	68	0.3
Cirripedia - nauplius <5mm	1	1024.0	68	0.3
Larvacea	1	1024.0	68	0.3
Euphausiacea - calyptopis 1	62	15.5	64	0.2
Metridia pacifica C-4	52	15.5	53	0.2
Neocalanus plumchrus C-4	52	15.5	53	0.2
Chaetognatha 5-20mm	97	8.0	51	0.2
Calanus marshallae C-5	35	15.5	36	0.1
Unidentified Calanoida C-3	1	512.0	34	0.1
Calanus marshallae - adult F	15	15.5	15	0.1
Euphausiacea - calyptopis 2	13	15.5	13	< 0.1
Euphausiacea - furcilia	8	15.5	8	< 0.1
Cnidaria - medusa >5mm	15	8.0	8	< 0.1
Calanus marshallae - adult M	6	15.5	6	< 0.1
Neocalanus cristatus C-5	10	8.0	5	< 0.1
Metridia pacifica C-5 M	3	15.5	3	< 0.1
Chaetognatha >20mm	5	8.0	3	< 0.1
Euphausiacea - calyptopis 3	2	15.5	2	< 0.1
Eucalanus bungii - adult F	3	8.0	2	< 0.1

Metridia pacifica - adult F	1	15.5	1	< 0.1
Neocalanus cristatus C-4	1	8.0	1	< 0.1
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		27080		100.

STA. 119 56 37.2 N 156 24.9 W 13 May 86 18:30

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 61 - 80 276.7 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	75	1024.0	2776	18.5
Other Copepoda <2mm	56	1024.0	2073	13.8
Other Copepoda - nauplius	38	1024.0	1406	9.4
Metriididae C-1	36	1024.0	1332	8.9
Metriididae C-2	30	1024.0	1110	7.4
Metriididae C-3	29	1024.0	1073	7.2
Pseudocalanus spp. - adult F	20	1024.0	740	4.9
Neocalanus plumchrus C-5	55	341.3	679	4.5
Pseudocalanus spp. - adult M	14	1024.0	518	3.5
Pseudocalanus spp. C-5 F	32	341.3	395	2.6
Invertebrata - egg <5mm	9	1024.0	333	2.2
?Pseudocalanus spp. C-3	9	1024.0	333	2.2
Pseudocalanus spp. C-5 M	26	341.3	321	2.1
?Pseudocalanus spp. C-2	7	1024.0	259	1.7
Pseudocalanus spp. C-4 F	20	341.3	247	1.6
Metridia pacifica C-4	61	93.1	205	1.4
Calanus marshallae C-3	41	93.1	138	0.9
Pseudocalanus spp. C-4 M	11	341.3	136	0.9
Metridia pacifica C-5 M	37	93.1	125	0.8
Polychaeta <5mm	3	1024.0	111	0.7
Chaetognatha 5-20mm	67	32.0	77	0.5
Calanus marshallae C-4	22	93.1	74	0.5
?Pseudocalanus spp. C-1	2	1024.0	74	0.5
Neocalanus cristatus C-5	38	32.0	44	0.3
Calanus marshallae C-2	13	93.1	44	0.3
Calanus marshallae - adult M	11	93.1	37	0.2
Cirripedia - nauplius <5mm	1	1024.0	37	0.2
Larvacea	1	1024.0	37	0.2
Euphausiacea - nauplius	1	1024.0	37	0.2
Cirripedia - cypris <5mm	1	1024.0	37	0.2
Foraminifera <5mm	1	1024.0	37	0.2
Neocalanus plumchrus C-4	25	37.9	34	0.2
Calanus marshallae C-5	9	93.1	30	0.2
Metridia pacifica - adult F	20	37.9	27	0.2
Calanus marshallae - adult F	7	93.1	24	0.2
Thysanoessa inermis A&J	7	32.0	8	0.1
Chaetognatha >20mm	6	32.0	7	< 0.1
Metridia pacifica C-5 F	2	93.1	7	< 0.1
Calanus marshallae C-1	2	93.1	7	< 0.1
Neocalanus cristatus C-4	5	32.0	6	< 0.1
Unidentified Calanoida C-3	1	93.1	3	< 0.1
Eucalanus bungii C-2	1	93.1	3	< 0.1
Acartia spp.	2	37.9	3	< 0.1
Euphausiacea - calyptopis 1	1	37.9	1	< 0.1
Mysidacea >5mm	1	32.0	1	< 0.1
Eucalanus bungii C-5 M	1	32.0	1	< 0.1

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15009	100.

STA. 119 56 37.2 N 156 24.9 W 13 May 86 18:30

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 80 - 100 149.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Pseudocalanus spp. - adult F	75	256.0	1285	17.0
Other Copepoda <2mm	64	256.0	1097	14.5
Metriididae C-1	62	256.0	1062	14.0
Other Copepoda - nauplius	44	256.0	754	10.0
Oithona spp.	37	256.0	634	8.4
Metridia pacifica - adult F	33	256.0	565	7.5
Metriididae C-2	31	256.0	531	7.0
Metriididae C-3	19	256.0	326	4.3
Metridia pacifica C-5 M	64	51.2	219	2.9
Foraminifera <5mm	12	256.0	206	2.7
Metridia pacifica C-4	40	51.2	137	1.8
Pseudocalanus spp. - adult M	8	256.0	137	1.8
Neocalanus plumchrus C-5	29	51.2	99	1.3
Invertebrata - egg <5mm	5	256.0	86	1.1
Larvacea	5	256.0	86	1.1
Metridia pacifica C-5 F	24	51.2	82	1.1
Pseudocalanus spp. C-5 M	16	51.2	55	0.7
Pseudocalanus spp. C-5 F	11	51.2	38	0.5
Chaetognatha 5-20mm	53	8.0	28	0.4
Neocalanus cristatus C-4	33	8.0	18	0.2
Hyperiididae <5mm	1	256.0	17	0.2
Cirripedia - nauplius <5mm	1	256.0	17	0.2
?Pseudocalanus spp. C-3	1	256.0	17	0.2
Polychaeta <5mm	1	256.0	17	0.2
Thecosomata <5mm	1	256.0	17	0.2
Calanus marshallae C-4	14	11.6	11	0.1
Calanus marshallae - adult M	5	11.6	4	0.1
Neocalanus plumchrus C-4	5	11.6	4	0.1
Chaetognatha >20mm	7	8.0	4	< 0.1
Pseudocalanus spp. C-4 F	4	11.6	3	< 0.1
Calanus marshallae - adult F	3	11.6	2	< 0.1
Thysanoessa inermis A&J	4	8.0	2	< 0.1
Neocalanus cristatus C-5	3	8.0	2	< 0.1
Calanus marshallae C-5	2	11.6	2	< 0.1
Pseudocalanus spp. C-4 M	2	11.6	2	< 0.1
Euphausiacea - calyptopis 1	1	11.6	1	< 0.1
Calanus pacificus C-5	1	11.6	1	< 0.1
Calanus marshallae C-3	1	11.6	1	< 0.1
Acartia spp.	1	11.6	1	< 0.1
Eucalanus bungii - adult M	1	8.0	1	< 0.1
Eucalanus bungii C-5 F	1	8.0	1	< 0.1
			7569	100.

STA. 119 56 37.2 N 156 24.9 W 13 May 86 18:30

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 101 - 124 159.2 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	83	256.0	1334	22.1
Metriididae C-1	60	256.0	965	15.9
Metriididae C-2	38	256.0	611	10.1
Other Copepoda - nauplius	35	256.0	563	9.3
Oithona spp.	31	256.0	498	8.2
Metridia pacifica - adult F	30	256.0	482	8.0
Foraminifera <5mm	26	256.0	418	6.9
Pseudocalanus spp. - adult F	48	85.3	257	4.3
Metridia pacifica C-5 M	31	85.3	166	2.7
Metriididae C-3	10	256.0	161	2.7
Metridia pacifica C-4	26	85.3	139	2.3
Metridia pacifica C-5 F	23	85.3	123	2.0
Polychaeta <5mm	5	256.0	80	1.3
Neocalanus plumchrus C-5	59	13.5	50	0.8
Euphausiacea - nauplius	2	256.0	32	0.5
Larvacea	2	256.0	32	0.5
?Pseudocalanus spp. C-3	2	256.0	32	0.5
Ostracoda <5mm	1	256.0	16	0.3
Metridia pacifica - adult M	1	256.0	16	0.3
Pseudocalanus spp. - adult M	2	85.3	11	0.2
Neocalanus cristatus C-4	32	4.0	8	0.1
Pseudocalanus spp. C-5 F	25	5.0	8	0.1
Pseudocalanus spp. C-5 M	25	5.0	8	0.1
Neocalanus cristatus C-5	30	4.0	8	0.1
Chaetognatha 5-20mm	25	4.0	6	0.1
Calanus marshallae - adult M	19	5.0	6	0.1
Calanus marshallae C-5	11	5.0	3	0.1
Chaetognatha >20mm	10	4.0	3	< 0.1
Neocalanus plumchrus C-4	2	13.5	2	< 0.1
Thysanoessa inermis A&J	6	4.0	2	< 0.1
Cnidaria - medusa >5mm	5	4.0	1	< 0.1
Thysanoessa spinifera A&J	4	4.0	1	< 0.1
Siphonophora >5mm	4	4.0	1	< 0.1
Calanus marshallae C-3	1	13.5	1	< 0.1
Other Copepoda >5mm	3	4.0	1	< 0.1
Acartia spp.	2	5.0	1	< 0.1
Calanus marshallae C-4	2	5.0	1	< 0.1
Calanus marshallae - adult F	1	5.0	< 1	< 0.1
Pseudocalanus spp. C-4 M	1	5.0	< 1	< 0.1
Pseudocalanus spp. C-4 F	1	5.0	< 1	< 0.1
Hyperidea >5mm	1	4.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	4.0	< 1	< 0.1
			6048	100.

STA. 119 56 37.2 N 156 24.9 W 13 May 86 18:30

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 125 - 152 280.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	97	512.0	1768	33.1
Metriididae C-2	32	512.0	583	10.9
Metridia pacifica - adult F	30	512.0	547	10.2
Metriididae C-1	24	512.0	437	8.2
Metriididae C-3	23	512.0	419	7.8
Oithona spp.	40	256.0	365	6.8
Other Copepoda - nauplius	12	512.0	219	4.1
Metridia pacifica C-5 M	20	256.0	182	3.4
Metridia pacifica C-4	44	85.3	134	2.5
Larvacea	7	512.0	128	2.4
Metridia pacifica C-5 F	13	256.0	118	2.2
Pseudocalanus spp. - adult F	31	85.3	94	1.8
Foraminifera <5mm	5	512.0	91	1.7
Neocalanus plumchrus C-5	27	85.3	82	1.5
Metridia pacifica - adult M	4	512.0	73	1.4
Polychaeta <5mm	2	512.0	36	0.7
Gastropoda <5mm	1	512.0	18	0.3
Cirripedia - nauplius <5mm	1	512.0	18	0.3
Neocalanus plumchrus C-4	2	85.3	6	0.1
Calanus marshallae - adult F	37	3.8	5	0.1
Chaetognatha 5-20mm	47	2.0	3	0.1
Neocalanus cristatus C-5	24	2.0	2	< 0.1
Pseudocalanus spp. C-5 F	11	3.8	1	< 0.1
Cnidaria >5mm	20	2.0	1	< 0.1
Calanus marshallae C-5	10	3.8	1	< 0.1
Thysanoessa inermis A&J	19	2.0	1	< 0.1
Pseudocalanus spp. C-5 M	8	3.8	1	< 0.1
Hyperiidia >5mm	10	2.0	1	< 0.1
Siphonophora >5mm	9	2.0	1	< 0.1
Thysanoessa spinifera A&J	9	2.0	1	< 0.1
Neocalanus cristatus C-4	8	2.0	1	< 0.1
Calanus marshallae - adult M	3	3.8	< 1	< 0.1
Chaetognatha >20mm	5	2.0	< 1	< 0.1
Pseudocalanus spp. C-4 F	2	3.8	< 1	< 0.1
Euphausiacea	3	2.0	< 1	< 0.1
Eucalanus bungii C-5 M	3	2.0	< 1	< 0.1
Euphausiacea - calyptopis 1	1	3.8	< 1	< 0.1
Calanus marshallae C-4	1	3.8	< 1	< 0.1
Calanus pacificus C-5	1	3.8	< 1	< 0.1
Neocalanus plumchrus - adult F	1	3.8	< 1	< 0.1
Acartia spp.	1	3.8	< 1	< 0.1
Unidentified Calanoida C-3	1	3.8	< 1	< 0.1
Gammaridea >5mm	1	2.0	< 1	< 0.1
			5341	100.

STA. 120 56 37.6 N 156 23.9 W 13 May 86 22:20

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 2 - 14 106.1 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	74	2048.0	14279	25.1
Euphausiacea - nauplius	49	2048.0	9455	16.6
Other Copepoda - nauplius	39	2048.0	7525	13.2
?Pseudocalanus spp. C-3	29	2048.0	5596	9.8
?Pseudocalanus spp. C-1	22	2048.0	4245	7.4
Pseudocalanus spp. - adult F	22	1024.0	2122	3.7
Pseudocalanus spp. C-5 M	20	1024.0	1930	3.4
?Pseudocalanus spp. C-2	9	2048.0	1737	3.0
Pseudocalanus spp. C-4 M	13	1024.0	1254	2.2
Pseudocalanus spp. C-5 F	13	1024.0	1254	2.2
Pseudocalanus spp. C-4 F	13	1024.0	1254	2.2
Invertebrata - egg <5mm	6	2048.0	1158	2.0
Larvacea	5	2048.0	965	1.7
Pseudocalanus spp. - adult M	8	1024.0	772	1.4
Cirripedia - nauplius <5mm	4	2048.0	772	1.4
Acartia spp.	34	204.8	656	1.2
Neocalanus plumchrus C-5	33	204.8	637	1.1
Euphausiacea - calyptopis 1	22	204.8	424	0.7
Calanus marshallae C-3	12	204.8	232	0.4
Thecosomata <5mm	1	2048.0	193	0.3
Calanus marshallae C-2	9	204.8	174	0.3
Calanus marshallae C-1	8	204.8	154	0.3
Neocalanus plumchrus C-4	40	14.8	56	0.1
Euphausiacea - calyptopis 2	2	204.8	39	0.1
Euphausiacea - calyptopis 3	2	204.8	39	0.1
Calanus marshallae C-4	25	14.8	35	0.1
Chaetognatha 5-20mm	47	2.0	9	< 0.1
Cnidaria - medusa >5mm	41	2.0	8	< 0.1
Calanus marshallae C-5	5	14.8	7	< 0.1
Euphausiacea - furcilia	23	3.2	7	< 0.1
Metridia pacifica - adult F	6	3.2	2	< 0.1
Metridia pacifica C-5 M	5	3.2	2	< 0.1
Metridia pacifica C-5 F	3	3.2	1	< 0.1
Metridia pacifica - adult M	3	3.2	1	< 0.1
Eucalanus bungii - adult F	4	2.0	1	< 0.1
Chaetognatha >20mm	2	2.0	< 1	< 0.1
Metridia pacifica C-4	1	3.2	< 1	< 0.1
			56991	100.

STA. 120 56 37.6 N 156 23.9 W 13 May 86 22:20

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 15 - 29 121.8 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	92	1024.0	7734	20.4
Euphausiacea - nauplius	73	1024.0	6137	16.2
Other Copepoda - nauplius	28	1024.0	2354	6.2
Pseudocalanus spp. - adult F	26	1024.0	2186	5.8
?Pseudocalanus spp. C-1	26	1024.0	2186	5.8
Cirripedia - nauplius <5mm	25	1024.0	2102	5.5
Larvacea	23	1024.0	1934	5.1
Pseudocalanus spp. C-4 M	18	1024.0	1513	4.0
Pseudocalanus spp. C-4 F	16	1024.0	1345	3.5
Pseudocalanus spp. - adult M	15	1024.0	1261	3.3
?Pseudocalanus spp. C-3	15	1024.0	1261	3.3
Pseudocalanus spp. C-5 M	14	1024.0	1177	3.1
Pseudocalanus spp. C-5 F	13	1024.0	1093	2.9
Cirripedia - cypris <5mm	12	1024.0	1009	2.7
?Pseudocalanus spp. C-2	11	1024.0	925	2.4
Invertebrata - egg <5mm	10	1024.0	841	2.2
Acartia spp.	40	204.8	673	1.8
Neocalanus plumchrus C-5	29	204.8	488	1.3
Euphausiacea - calyptopis 1	27	204.8	454	1.2
Other Copepoda <2mm	3	1024.0	252	0.7
Polychaeta <5mm	3	1024.0	252	0.7
Hyperiidea <5mm	2	1024.0	168	0.4
Calanus marshallae C-2	20	78.8	129	0.3
Calanus marshallae C-1	17	78.8	110	0.3
Calanus marshallae C-3	15	78.8	97	0.3
Euphausiacea - calyptopis 3	4	204.8	67	0.2
Euphausiacea - calyptopis 2	3	204.8	50	0.1
Calanus marshallae C-4	65	7.3	39	0.1
Neocalanus plumchrus C-4	64	7.3	38	0.1
Euphausiacea - furcilia	31	7.3	19	< 0.1
Cnidaria - medusa >5mm	69	2.0	11	< 0.1
Chaetognatha 5-20mm	62	2.0	10	< 0.1
Calanus marshallae C-5	13	7.3	8	< 0.1
Calanus marshallae - adult F	4	7.3	2	< 0.1
Calanus marshallae - adult M	2	7.3	1	< 0.1
Eucalanus bungii - adult F	7	2.0	1	< 0.1
Chaetognatha >20mm	3	2.0	< 1	< 0.1
Eucalanus bungii C-5 F	2	2.0	< 1	< 0.1
Neocalanus cristatus C-5	1	2.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	2.0	< 1	< 0.1
			37927	100.

STA. 120 56 37.6 N 156 23.9 W 13 May 86 22:20

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 30 - 44 113.1 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	91	1024.0	8241	21.5
Euphausiacea - nauplius	73	1024.0	6611	17.3
Other Copepoda - nauplius	48	1024.0	4347	11.3
?Pseudocalanus spp. C-2	23	1024.0	2083	5.4
?Pseudocalanus spp. C-1	22	1024.0	1992	5.2
Pseudocalanus spp. - adult F	21	1024.0	1902	5.0
?Pseudocalanus spp. C-3	20	1024.0	1811	4.7
Cirripedia - nauplius <5mm	14	1024.0	1268	3.3
Larvacea	13	1024.0	1177	3.1
Invertebrata - egg <5mm	12	1024.0	1087	2.8
Pseudocalanus spp. C-5 M	23	512.0	1041	2.7
Pseudocalanus spp. C-5 F	21	512.0	951	2.5
Pseudocalanus spp. C-4 M	20	512.0	906	2.4
Pseudocalanus spp. - adult M	10	1024.0	906	2.4
Neocalanus plumchrus C-5	76	102.4	688	1.8
Acartia spp.	70	102.4	634	1.7
Cirripedia - cypris <5mm	6	1024.0	543	1.4
Euphausiacea - calyptopis 1	46	102.4	417	1.1
Pseudocalanus spp. C-4 F	9	512.0	408	1.1
Polychaeta <5mm	4	1024.0	362	0.9
Calanus marshallae C-1	23	102.4	208	0.5
Calanus marshallae C-3	21	102.4	190	0.5
Calanus marshallae C-2	15	102.4	136	0.4
Foraminifera <5mm	1	1024.0	91	0.2
Hyperiidia <5mm	1	1024.0	91	0.2
Neocalanus plumchrus C-4	75	7.4	49	0.1
Calanus marshallae C-4	54	7.4	35	0.1
Euphausiacea - calyptopis 2	3	102.4	27	0.1
Euphausiacea - furcilia	36	7.4	24	0.1
Euphausiacea - calyptopis 3	2	102.4	18	< 0.1
Chaetognatha 5-20mm	51	4.0	18	< 0.1
Cnidaria - medusa >5mm	45	4.0	16	< 0.1
Neocalanus plumchrus C-2	1	102.4	9	< 0.1
Calanus marshallae C-5	8	7.4	5	< 0.1
Calanus marshallae - adult F	5	7.4	3	< 0.1
Calanus pacificus C-5	3	7.4	2	< 0.1
Calanus marshallae - adult M	3	7.4	2	< 0.1
Chaetognatha >20mm	4	4.0	1	< 0.1
Eucalanus bungii - adult F	2	4.0	1	< 0.1
Neocalanus cristatus C-5	2	4.0	1	< 0.1
			38303	100.

STA. 120 56 37.6 N 156 23.9 W 13 May 86 22:20

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 45 - 59 122.0 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	117	1024.0	9823	21.7
Euphausiacea - nauplius	98	1024.0	8228	18.2
Other Copepoda - nauplius	75	1024.0	6297	13.9
?Pseudocalanus spp. C-1	30	1024.0	2519	5.6
Pseudocalanus spp. - adult M	25	1024.0	2099	4.6
?Pseudocalanus spp. C-3	24	1024.0	2015	4.4
?Pseudocalanus spp. C-2	24	1024.0	2015	4.4
Pseudocalanus spp. C-4 M	17	1024.0	1427	3.2
Larvacea	15	1024.0	1259	2.8
Invertebrata - egg <5mm	14	1024.0	1175	2.6
Acartia spp.	40	341.3	1119	2.5
Pseudocalanus spp. - adult F	13	1024.0	1091	2.4
Pseudocalanus spp. C-5 M	39	341.3	1091	2.4
Pseudocalanus spp. C-4 F	12	1024.0	1007	2.2
Pseudocalanus spp. C-5 F	32	341.3	895	2.0
Neocalanus plumchrus C-5	32	341.3	895	2.0
Cirripedia - cypris <5mm	4	1024.0	336	0.7
Cirripedia - nauplius <5mm	4	1024.0	336	0.7
Calanus marshallae C-1	12	341.3	336	0.7
Metriididae C-3	3	1024.0	252	0.6
Calanus marshallae C-2	9	341.3	252	0.6
Calanus marshallae C-3	5	341.3	140	0.3
Euphausiacea - calyptopis 1	43	29.3	103	0.2
Polychaeta <5mm	1	1024.0	84	0.2
Other Copepoda <2mm	1	1024.0	84	0.2
Foraminifera <5mm	1	1024.0	84	0.2
Echinodermata - larva <5mm	1	1024.0	84	0.2
Neocalanus plumchrus C-4	29	29.3	70	0.2
Calanus marshallae C-4	98	6.3	51	0.1
Euphausiacea - furcilia	50	6.3	26	0.1
Euphausiacea - calyptopis 2	10	29.3	24	0.1
Chaetognatha 5-20mm	59	4.0	19	< 0.1
Cnidaria - medusa >5mm	45	4.0	15	< 0.1
Euphausiacea - calyptopis 3	5	29.3	12	< 0.1
Calanus marshallae C-5	14	6.3	7	< 0.1
Calanus marshallae - adult F	11	6.3	6	< 0.1
Calanus marshallae - adult M	6	6.3	3	< 0.1
Metridia pacifica - adult M	1	29.3	2	< 0.1
Metridia pacifica - adult F	1	29.3	2	< 0.1
Chaetognatha >20mm	5	4.0	2	< 0.1
Eucalanus bungii - adult F	2	4.0	1	< 0.1
Calanus pacificus - adult M	1	6.3	1	< 0.1
Neocalanus cristatus C-5	1	4.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	4.0	< 1	< 0.1
			45287	100.

STA. 120 56 37.6 N 156 23.9 W 13 May 86 22:20

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 59 - 78 119.8 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	64	512.0	2734	29.3
Neocalanus plumchrus C-5	34	512.0	1452	15.6
Pseudocalanus spp. - adult F	29	512.0	1239	13.3
Other Copepoda damaged	28	512.0	1196	12.8
Pseudocalanus spp. - adult M	17	512.0	726	7.8
Other Copepoda - nauplius	16	512.0	684	7.3
Metriididae C-2	5	512.0	214	2.3
Euphausiacea - nauplius	5	512.0	214	2.3
Other Copepoda <2mm	3	512.0	128	1.4
Invertebrata - egg <5mm	3	512.0	128	1.4
Metriididae C-3	3	512.0	128	1.4
Unidentified Calanoida C-3	94	15.5	122	1.3
?Pseudocalanus spp. C-3	1	512.0	43	0.5
Cirripecta - nauplius <5mm	1	512.0	43	0.5
Metriididae C-1	1	512.0	43	0.5
Calanus marshallae C-4	30	15.5	39	0.4
Neocalanus plumchrus C-4	23	15.5	30	0.3
Pseudocalanus spp. C-5 M	23	15.5	30	0.3
Acartia spp.	22	15.5	28	0.3
Calanus marshallae - adult F	16	15.5	21	0.2
Unidentified Calanoida C-2	14	15.5	18	0.2
Metridia pacifica C-4	12	15.5	16	0.2
Neocalanus cristatus C-5	76	2.0	13	0.1
Calanus marshallae C-5	9	15.5	12	0.1
Pseudocalanus spp. C-5 F	9	15.5	12	0.1
Calanus marshallae - adult M	5	15.5	6	0.1
Unidentified Calanoida C-1	4	15.5	5	0.1
Pseudocalanus spp. C-4 F	4	15.5	5	0.1
Pseudocalanus spp. C-4 M	3	15.5	4	< 0.1
Metridia pacifica C-5 M	3	15.5	4	< 0.1
Euphausiacea - calyptopis 1	1	15.5	1	< 0.1
Euphausiacea - calyptopis 3	1	15.5	1	< 0.1
Neocalanus cristatus C-4	7	2.0	1	< 0.1
Thysanoessa inermis A&J	6	2.0	1	< 0.1
Eucalanus bungii - adult F	5	2.0	1	< 0.1
Euphausiacea A&J	1	2.0	< 1	< 0.1
			9340	100.

STA. 120 56 37.6 N 156 23.9 W 13 May 86 22:20

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 80 - 99 175.7 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	120	256.0	1749	19.2
Other Copepoda - nauplius	100	256.0	1457	16.0
Metriididae C-1	99	256.0	1443	15.8
Oithona spp.	98	256.0	1428	15.7
Pseudocalanus spp. - adult F	54	256.0	787	8.6
Pseudocalanus spp. - adult M	31	256.0	452	5.0
Metriididae C-2	26	256.0	379	4.2
Larvacea	19	256.0	277	3.0
Metriididae C-3	14	256.0	204	2.2
Metridia pacifica C-5 M	38	85.3	184	2.0
Neocalanus plumchrus C-5	169	13.5	130	1.4
Metridia pacifica C-4	21	85.3	102	1.1
Siphonophora <5mm	4	256.0	58	0.6
Pseudocalanus spp. C-5 F	75	13.5	58	0.6
?Pseudocalanus spp. C-1	3	256.0	44	0.5
Chaetognatha 5-20mm	88	8.0	40	0.4
Pseudocalanus spp. C-5 M	51	13.5	39	0.4
Calanus marshallae C-4	44	13.5	34	0.4
Pseudocalanus spp. C-4 F	31	13.5	24	0.3
Neocalanus plumchrus C-4	30	13.5	23	0.3
Calanus marshallae C-3	27	13.5	21	0.2
Calanus marshallae C-5	25	13.5	19	0.2
Cirripedia - nauplius <5mm	1	256.0	15	0.2
Hyperiididea <5mm	1	256.0	15	0.2
Thecosomata <5mm	1	256.0	15	0.2
Euphausiacea - nauplius	1	256.0	15	0.2
Polychaeta <5mm	1	256.0	15	0.2
Chaetognatha <5mm	1	256.0	15	0.2
Foraminifera <5mm	1	256.0	15	0.2
Neocalanus cristatus C-4	21	8.0	10	0.1
Metridia pacifica - adult F	12	13.5	9	0.1
Chaetognatha >20mm	18	8.0	8	0.1
Pseudocalanus spp. C-4 M	9	13.5	7	0.1
Metridia pacifica C-5 F	1	85.3	5	0.1
Calanus marshallae - adult M	6	13.5	5	0.1
Calanus marshallae - adult F	5	13.5	4	< 0.1
Acartia spp.	4	13.5	3	< 0.1
Neocalanus cristatus C-5	4	8.0	2	< 0.1
Calanus pacificus C-4	2	13.5	2	< 0.1
Calanus marshallae C-2	1	13.5	1	< 0.1
Cnidaria - medusa >5mm	1	8.0	< 1	< 0.1
Hyperiididea >5mm	1	8.0	< 1	< 0.1
Thysanoessa inermis A&J	1	8.0	< 1	< 0.1
Thysanoessa spinifera A&J	1	8.0	< 1	< 0.1
			9108	100.

STA. 120 56 37.6 N 156 23.9 W 13 May 86 22:20

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 100 - 148 314.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	79	1024.0	2573	22.5
Metriididae C-2	55	1024.0	1792	15.7
Other Copepoda - nauplius	54	1024.0	1759	15.4
Oithona spp.	41	1024.0	1336	11.7
Metriididae C-3	24	1024.0	782	6.8
Metriididae C-1	23	1024.0	749	6.6
Metridia pacifica C-4	36	341.3	391	3.4
Pseudocalanus spp. - adult F	35	341.3	380	3.3
Metridia pacifica C-5 F	31	341.3	337	2.9
Metridia pacifica C-5 M	25	341.3	271	2.4
Metridia pacifica - adult F	23	341.3	250	2.2
Larvacea	7	1024.0	228	2.0
Pseudocalanus spp. - adult M	10	341.3	109	1.0
Polychaeta <5mm	3	1024.0	98	0.9
Invertebrata - egg <5mm	3	1024.0	98	0.9
Cladocera <5mm	2	1024.0	65	0.6
Neocalanus plumchrus C-5	36	53.9	62	0.5
Pseudocalanus spp. C-5 F	4	341.3	43	0.4
Thecosomata <5mm	1	1024.0	33	0.3
Metridia pacifica - adult M	2	341.3	22	0.2
Neocalanus cristatus C-4	32	8.0	8	0.1
Chaetognatha 5-20mm	24	8.0	6	0.1
Neocalanus plumchrus C-4	3	53.9	5	< 0.1
Chaetognatha >20mm	19	8.0	5	< 0.1
Neocalanus cristatus C-5	11	8.0	3	< 0.1
Cnidaria - medusa >5mm	8	8.0	2	< 0.1
Calanus marshallae C-5	1	53.9	2	< 0.1
Euphausiacea - calyptopis 2	1	53.9	2	< 0.1
Calanus marshallae - adult M	1	53.9	2	< 0.1
Calanus marshallae - adult F	1	53.9	2	< 0.1
Hyperiididea >5mm	4	8.0	1	< 0.1
Siphonophora >5mm	3	8.0	1	< 0.1
Thysanoessa raschii A&J	2	8.0	1	< 0.1
Other Copepoda >5mm	2	8.0	1	< 0.1
Eucalanus bungii C-5 F	1	8.0	< 1	< 0.1
Polychaeta >5mm	1	8.0	< 1	< 0.1
			11415	100.

STA. 120 56 37.6 N 156 23.9 W 13 May 86 22:20

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 148 - 176 128.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	202	128.0	2010	38.1
Metriididae C-3	42	128.0	418	7.9
Metriididae C-2	40	128.0	398	7.5
Metridia pacifica C-4	38	128.0	378	7.2
Neocalanus plumchrus C-5	30	128.0	298	5.7
Oithona spp.	52	64.0	259	4.9
Metriididae C-1	24	128.0	239	4.5
Metridia pacifica C-5 M	21	128.0	209	4.0
Metridia pacifica - adult M	20	128.0	199	3.8
Metridia pacifica C-5 F	20	128.0	199	3.8
Metridia pacifica - adult F	18	128.0	179	3.4
Other Copepoda - nauplius	10	128.0	99	1.9
Pseudocalanus spp. - adult F	207	3.8	61	1.2
Hyperiididae <5mm	4	128.0	40	0.8
Cirripedia - nauplius <5mm	4	128.0	40	0.8
Polychaeta <5mm	4	128.0	40	0.8
Larvacea	3	128.0	30	0.6
Euphausiacea - nauplius	3	128.0	30	0.6
Other Copepoda 2-5mm	2	128.0	20	0.4
Thecosomata <5mm	2	128.0	20	0.4
Siphonophora <5mm	2	128.0	20	0.4
Cirripedia - cypris <5mm	1	128.0	10	0.2
Mysidacea <5mm	1	128.0	10	0.2
Ostracoda <5mm	1	128.0	10	0.2
Brachyura - larva	1	128.0	10	0.2
Natantia - larva	1	128.0	10	0.2
Neocalanus plumchrus - adult F	1	128.0	10	0.2
Pseudocalanus spp. - adult M	15	3.8	4	0.1
Pseudocalanus spp. C-5 F	14	3.8	4	0.1
Calanus marshallae C-5	11	3.8	3	0.1
Calanus marshallae - adult M	9	3.8	3	0.1
Pseudocalanus spp. C-5 M	8	3.8	2	< 0.1
Chaetognatha 5-20mm	13	2.0	2	< 0.1
Calanus pacificus C-5	6	3.8	2	< 0.1
Pseudocalanus spp. C-4 F	5	3.8	1	< 0.1
Calanus marshallae - adult F	5	3.8	1	< 0.1
Neocalanus cristatus C-5	6	2.0	1	< 0.1
Euphausiacea - calyptopis 3	3	3.8	1	< 0.1
Hyperiididae >5mm	5	2.0	1	< 0.1
Chaetognatha >20mm	5	2.0	1	< 0.1
Other Copepoda >5mm	5	2.0	1	< 0.1
Calanus marshallae C-2	2	3.8	1	< 0.1
Siphonophora >5mm	3	2.0	< 1	< 0.1
Gammaridea >5mm	2	2.0	< 1	< 0.1
Euphausiacea - calyptopis 2	1	3.8	< 1	< 0.1
Calanus marshallae C-4	1	3.8	< 1	< 0.1
Unidentified Calanoida C-3	1	3.8	< 1	< 0.1

Neocalanus cristatus C-4	1	2.0	< 1	< 0.1
Thysanoessa spinifera A&J	1	2.0	< 1	< 0.1
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		5275		100.

STA. 121 56 37.4 N 156 24.7 W 14 May 86 6:25

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 2 - 14 89.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	80	1024.0	9142	15.2
Acartia spp.	68	1024.0	7771	13.0
Calanus marshallae C-3	41	1024.0	4685	7.8
Euphausiacea - nauplius	39	1024.0	4457	7.4
Neocalanus plumchrus C-5	54	512.0	3085	5.1
Calanus marshallae C-2	26	1024.0	2971	5.0
Euphausiacea - calyptopis 1	23	1024.0	2628	4.4
Neocalanus plumchrus C-4	21	1024.0	2400	4.0
Other Copepoda - nauplius	21	1024.0	2400	4.0
Thecosomata <5mm	16	1024.0	1828	3.0
Calanus marshallae C-4	16	1024.0	1828	3.0
?Pseudocalanus spp. C-3	31	512.0	1771	3.0
Euphausiacea - calyptopis 2	12	1024.0	1371	2.3
?Pseudocalanus spp. C-2	23	512.0	1314	2.2
Pseudocalanus spp. C-4 F	21	512.0	1200	2.0
Pseudocalanus spp. - adult F	20	512.0	1143	1.9
Calanus marshallae C-1	10	1024.0	1143	1.9
Pseudocalanus spp. C-5 F	17	512.0	971	1.6
Larvacea	8	1024.0	914	1.5
Pseudocalanus spp. C-5 M	16	512.0	914	1.5
Pseudocalanus spp. C-4 M	14	512.0	800	1.3
Pseudocalanus spp. - adult M	13	512.0	743	1.2
?Pseudocalanus spp. C-1	10	512.0	571	1.0
Calanus marshallae C-5	5	1024.0	571	1.0
Invertebrata - egg <5mm	5	1024.0	571	1.0
Other Copepoda <2mm	3	1024.0	343	0.6
Cirripedia - nauplius <5mm	3	1024.0	343	0.6
Calanus marshallae - adult F	3	1024.0	343	0.6
Calanus pacificus C-5	2	1024.0	229	0.4
Cirripedia - cypris <5mm	2	1024.0	229	0.4
Metriididae C-3	2	1024.0	229	0.4
Euphausiacea - calyptopis 3	2	1024.0	229	0.4
Chaetognatha 5-20mm	72	16.0	129	0.2
Polychaeta <5mm	1	1024.0	114	0.2
Unidentified Calanoida C-2	1	1024.0	114	0.2
Chaetognatha <5mm	1	1024.0	114	0.2
Unidentified Calanoida C-3	1	1024.0	114	0.2
Neocalanus plumchrus C-3	1	1024.0	114	0.2
Chaetognatha >20mm	37	16.0	66	0.1
Cnidaria - medusa >5mm	13	16.0	23	< 0.1
Eucalanus bungii - adult F	9	16.0	16	< 0.1
Siphonophora >5mm	2	16.0	4	< 0.1
Polychaeta >5mm	1	16.0	2	< 0.1
Eucalanus bungii - adult M	1	16.0	2	< 0.1
Neocalanus cristatus C-5	1	16.0	2	< 0.1
Hyperiididea >5mm	1	16.0	2	< 0.1

59952

100.

STA. 121 56 37.4 N 156 24.7 W 14 May 86 6:25

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 14 - 30 108.2 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	203	512.0	9605	27.6
Other Copepoda - nauplius	125	512.0	5914	17.0
Neocalanus plumchrus C-5	62	512.0	2934	8.4
Euphausiacea - nauplius	53	512.0	2508	7.2
?Pseudocalanus spp. C-2	40	512.0	1893	5.4
?Pseudocalanus spp. C-3	31	512.0	1467	4.2
?Pseudocalanus spp. C-1	27	512.0	1278	3.7
Larvacea	24	512.0	1136	3.3
Pseudocalanus spp. C-4 M	22	512.0	1041	3.0
Pseudocalanus spp. C-4 F	19	512.0	899	2.6
Pseudocalanus spp. C-5 M	18	512.0	852	2.5
Other Copepoda <2mm	16	512.0	757	2.2
Pseudocalanus spp. - adult F	45	170.7	710	2.0
Pseudocalanus spp. C-5 F	15	512.0	710	2.0
Pseudocalanus spp. - adult M	23	170.7	363	1.0
Calanus marshallae C-3	23	170.7	363	1.0
Thecosomata <5mm	7	512.0	331	1.0
Calanus marshallae C-2	15	170.7	237	0.7
Polychaeta <5mm	5	512.0	237	0.7
Euphausiacea - calyptopis 1	46	46.5	198	0.6
Chaetognatha <5mm	4	512.0	189	0.5
Calanus marshallae C-4	40	46.5	172	0.5
Acartia spp.	38	46.5	163	0.5
Chaetognatha 5-20mm	106	16.0	157	0.5
Cirripedia - nauplius <5mm	3	512.0	142	0.4
Echinodermata - larva <5mm	2	512.0	95	0.3
Neocalanus plumchrus C-4	16	46.5	69	0.2
Calanus marshallae C-5	13	46.5	56	0.2
Euphausiacea - calyptopis 2	13	46.5	56	0.2
Teleostei - larva <5mm	1	512.0	47	0.1
Cirripedia - cypris <5mm	1	512.0	47	0.1
Cladocera <5mm	1	512.0	47	0.1
Euphausiacea - furcilia	4	46.5	17	< 0.1
Calanus marshallae C-1	1	170.7	16	< 0.1
Chaetognatha >20mm	10	16.0	15	< 0.1
Eucalanus bungii - adult F	7	16.0	10	< 0.1
Neocalanus cristatus C-5	6	16.0	9	< 0.1
Euphausiacea - calyptopis 3	2	46.5	9	< 0.1
Calanus marshallae - adult F	2	46.5	9	< 0.1
Calanus marshallae - adult M	1	46.5	4	< 0.1
Thysanoessa inermis A&J	1	16.0	1	< 0.1
			34759	100.

STA. 121 56 37.4 N 156 24.7 W 14 May 86 6:25

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 30 - 45 129.7 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	109	1024.0	8605	32.3
Other Copepoda - nauplius	47	1024.0	3710	13.9
Euphausiacea - nauplius	34	1024.0	2684	10.1
Neocalanus plumchrus C-5	38	512.0	1500	5.6
?Pseudocalanus spp. C-2	15	1024.0	1184	4.4
?Pseudocalanus spp. C-3	14	1024.0	1105	4.1
Pseudocalanus spp. C-4 F	23	512.0	908	3.4
Pseudocalanus spp. C-4 M	21	512.0	829	3.1
?Pseudocalanus spp. C-1	8	1024.0	632	2.4
Calanus marshallae C-3	15	512.0	592	2.2
Pseudocalanus spp. C-5 M	29	256.0	572	2.1
Pseudocalanus spp. - adult F	14	512.0	553	2.1
Pseudocalanus spp. - adult M	12	512.0	474	1.8
Pseudocalanus spp. C-5 F	18	256.0	355	1.3
Larvacea	4	1024.0	316	1.2
Calanus marshallae C-2	8	512.0	316	1.2
Metriididae C-2	4	1024.0	316	1.2
Other Copepoda <2mm	3	1024.0	237	0.9
Calanus marshallae C-4	102	28.4	223	0.8
Euphausiacea - calyptopis 1	82	28.4	180	0.7
Thecosomata <5mm	2	1024.0	158	0.6
Chaetognatha <5mm	2	1024.0	158	0.6
Chaetognatha 5-20mm	127	16.0	157	0.6
Neocalanus plumchrus C-4	41	28.4	90	0.3
Metridia pacifica - adult F	37	28.4	81	0.3
Calanus marshallae C-1	2	512.0	79	0.3
Cirripedia - nauplius <5mm	1	1024.0	79	0.3
Metriididae C-3	1	1024.0	79	0.3
Natantia - larva	1	1024.0	79	0.3
Euphausiacea - calyptopis 2	33	28.4	72	0.3
Metridia pacifica C-5 M	27	28.4	59	0.2
Acartia spp.	25	28.4	55	0.2
Unidentified Calanoida C-3	1	512.0	39	0.1
Neocalanus plumchrus C-3	1	512.0	39	0.1
Calanus marshallae C-5	14	28.4	31	0.1
Calanus marshallae - adult F	13	28.4	28	0.1
Euphausiacea - calyptopis 3	7	28.4	15	0.1
Metridia pacifica C-4	7	28.4	15	0.1
Neocalanus cristatus C-5	9	16.0	11	< 0.1
Chaetognatha >20mm	9	16.0	11	< 0.1
Euphausiacea - furcilia	3	28.4	7	< 0.1
Cnidaria - medusa >5mm	5	16.0	6	< 0.1
Neocalanus cristatus C-4	4	16.0	5	< 0.1
Metridia pacifica C-5 F	2	28.4	4	< 0.1
Eucalanus bungii - adult F	3	16.0	4	< 0.1
Metridia spp. - adult F	1	28.4	2	< 0.1

26654

100.

STA. 121 56 37.4 N 156 24.7 W 14 May 86 6:25

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 46 - 60 119.3 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	87	512.0	3733	21.9
Other Copepoda - nauplius	32	512.0	1373	8.1
Euphausiacea - nauplius	29	512.0	1244	7.3
Pseudocalanus spp. - adult F	26	512.0	1116	6.6
Other Copepoda <2mm	20	512.0	858	5.0
Pseudocalanus spp. C-5 M	18	512.0	772	4.5
Pseudocalanus spp. C-5 F	15	512.0	644	3.8
Neocalanus plumchrus C-5	66	102.4	566	3.3
Calanus marshallae C-3	63	102.4	541	3.2
?Pseudocalanus spp. C-3	11	512.0	472	2.8
Metriididae C-2	11	512.0	472	2.8
Pseudocalanus spp. C-4 F	54	102.4	463	2.7
Pseudocalanus spp. - adult M	9	512.0	386	2.3
?Pseudocalanus spp. C-2	9	512.0	386	2.3
Invertebrata - egg <5mm	8	512.0	343	2.0
Metridia pacifica - adult F	39	102.4	335	2.0
Calanus marshallae C-2	37	102.4	318	1.9
Pseudocalanus spp. C-4 M	37	102.4	318	1.9
Metridia pacifica C-5 M	36	102.4	309	1.8
Chaetognatha 5-20mm	113	32.0	303	1.8
?Pseudocalanus spp. C-1	7	512.0	300	1.8
Metriididae C-1	5	512.0	215	1.3
Metriididae C-3	5	512.0	215	1.3
Calanus marshallae C-4	22	102.4	189	1.1
Cirripedia - nauplius <5mm	3	512.0	129	0.8
Metridia pacifica - adult M	13	102.4	112	0.7
Neocalanus plumchrus C-4	12	102.4	103	0.6
Polychaeta <5mm	2	512.0	86	0.5
Chaetognatha <5mm	2	512.0	86	0.5
Euphausiacea - calyptopis 2	20	39.4	66	0.4
Metridia pacifica C-4	6	102.4	51	0.3
Calanus marshallae C-1	6	102.4	51	0.3
Euphausiacea - calyptopis 1	15	39.4	50	0.3
Cladocera <5mm	1	512.0	43	0.3
Calanus marshallae - adult F	5	102.4	43	0.3
Cirripedia - cypris <5mm	1	512.0	43	0.3
Neocalanus cristatus C-4	11	32.0	30	0.2
Neocalanus cristatus C-5	10	32.0	27	0.2
Chaetognatha >20mm	10	32.0	27	0.2
Euphausiacea - calyptopis 3	8	39.4	26	0.2
Calanus marshallae C-5	3	102.4	26	0.2
Neocalanus plumchrus C-3	3	102.4	26	0.2
Acartia spp.	3	102.4	26	0.2
Euphausiacea - furcilia	7	39.4	23	0.1
Unidentified Calanoida C-2	2	102.4	17	0.1
Metridia pacifica C-5 F	2	102.4	17	0.1
Cnidaria - medusa >5mm	5	32.0	13	0.1

Hyperiidia >5mm	4	32.0	11	0.1
Neocalanus plumchrus C-2	1	102.4	9	0.1
Calanus marshallae - adult M	1	102.4	9	0.1
Eucalanus bungii C-5 F	2	32.0	5	< 0.1
Thysanoessa raschii A&J	1	32.0	3	< 0.1
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			17027	100.

STA. 121 56 37.4 N 156 24.7 W 14 May 86 6:25

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 60 - 80 159.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	49	1024.0	3137	17.2
Oithona spp.	48	1024.0	3073	16.8
Other Copepoda - nauplius	43	1024.0	2753	15.1
Pseudocalanus spp. - adult F	36	1024.0	2305	12.6
Metriididae C-2	24	1024.0	1537	8.4
Metriididae C-1	20	1024.0	1281	7.0
Pseudocalanus spp. - adult M	11	1024.0	704	3.9
Metriididae C-3	10	1024.0	640	3.5
Cirripedia - cypris <5mm	5	1024.0	320	1.8
Pseudocalanus spp. C-5 F	25	204.8	320	1.8
Metridia pacifica C-4	57	78.8	281	1.5
Metridia pacifica C-5 M	19	204.8	243	1.3
Metridia pacifica - adult F	46	78.8	227	1.2
Metridia pacifica C-5 F	15	204.8	192	1.1
Polychaeta <5mm	2	1024.0	128	0.7
Euphausiacea - nauplius	2	1024.0	128	0.7
Thecosomata <5mm	2	1024.0	128	0.7
Pseudocalanus spp. C-5 M	9	204.8	115	0.6
Pseudocalanus spp. C-4 F	18	78.8	89	0.5
Neocalanus plumchrus C-4	31	35.3	68	0.4
Calanus marshallae C-3	30	35.3	66	0.4
Pseudocalanus spp. C-4 M	13	78.8	64	0.4
Natantia - larva	1	1024.0	64	0.4
Larvacea	1	1024.0	64	0.4
?Pseudocalanus spp. C-3	4	204.8	51	0.3
Metridia spp. - adult F	10	78.8	49	0.3
Calanus marshallae C-4	21	35.3	46	0.3
Neocalanus plumchrus C-5	41	16.8	43	0.2
Chaetognatha 5-20mm	71	8.0	36	0.2
Unidentified Calanoida C-3	10	35.3	22	0.1
Calanus marshallae C-5	7	35.3	15	0.1
Calanus marshallae - adult F	6	35.3	13	0.1
?Pseudocalanus spp. C-2	1	204.8	13	0.1
Calanus marshallae C-2	5	35.3	11	0.1
Neocalanus cristatus C-4	21	8.0	11	0.1
Neocalanus plumchrus C-3	2	35.3	4	< 0.1
Euphausiacea - calyptopis 1	4	16.8	4	< 0.1
Acartia spp.	4	16.8	4	< 0.1
Calanus marshallae - adult M	1	35.3	2	< 0.1
Neocalanus cristatus C-5	3	8.0	2	< 0.1
Chaetognatha >20mm	2	8.0	1	< 0.1
Eucalanus bungii - adult F	1	8.0	1	< 0.1
Other Copepoda >5mm	1	8.0	1	< 0.1
Thysanoessa inermis A&J	1	8.0	1	< 0.1
			18258	100.

STA. 121 56 37.4 N 156 24.7 W 14 May 86 6:25

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 81 - 101 184.5 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda - nauplius	69	512.0	1915	22.0
Other Copepoda <2mm	51	512.0	1416	16.3
Metriididae C-1	47	512.0	1305	15.0
Metriididae C-2	37	512.0	1027	11.8
Oithona spp.	54	256.0	749	8.6
Pseudocalanus spp. - adult F	26	512.0	722	8.3
Metriididae C-3	9	512.0	250	2.9
Pseudocalanus spp. - adult M	7	512.0	194	2.2
Metridia pacifica C-4	46	64.0	160	1.8
Metridia pacifica C-5 F	18	128.0	125	1.4
Larvacea	4	512.0	111	1.3
Metridia pacifica - adult F	30	64.0	104	1.2
Cirripecta - nauplius <5mm	3	512.0	83	1.0
Metridia pacifica C-5 M	12	128.0	83	1.0
Pseudocalanus spp. C-5 M	35	32.0	61	0.7
?Pseudocalanus spp. C-1	2	512.0	56	0.6
Polychaeta <5mm	2	512.0	56	0.6
Neocalanus plumchrus C-5	51	16.0	44	0.5
Metridia spp. - adult F	11	64.0	38	0.4
Pseudocalanus spp. C-5 F	20	32.0	35	0.4
?Pseudocalanus spp. C-2	1	512.0	28	0.3
Cirripecta - cypris <5mm	1	512.0	28	0.3
Foraminifera <5mm	1	512.0	28	0.3
Neocalanus plumchrus C-4	39	8.0	17	0.2
Chaetognatha 5-20mm	57	4.0	12	0.1
Neocalanus cristatus C-4	46	4.0	10	0.1
Calanus marshallae C-4	11	16.0	10	0.1
Pseudocalanus spp. C-4 F	19	8.0	8	0.1
Calanus marshallae - adult M	9	16.0	8	0.1
Calanus marshallae C-5	8	16.0	7	0.1
Calanus marshallae - adult F	4	16.0	3	< 0.1
Calanus marshallae C-3	7	8.0	3	< 0.1
Pseudocalanus spp. C-4 M	5	8.0	2	< 0.1
Neocalanus cristatus C-5	8	4.0	2	< 0.1
Acartia spp.	2	8.0	1	< 0.1
Other Copepoda >5mm	4	4.0	1	< 0.1
Chaetognatha >20mm	3	4.0	1	< 0.1
Euphausiacea - calyptopis 1	1	8.0	< 1	< 0.1
Unidentified Calanoida C-3	1	8.0	< 1	< 0.1
Calanus marshallae C-2	1	8.0	< 1	< 0.1
Eucalanus bungii - adult F	1	4.0	< 1	< 0.1
			8702	100.

STA. 121 56 37.4 N 156 24.7 W 14 May 86 6:25

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 100 - 150 394.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	154	512.0	1998	31.7
Metriididae C-1	88	512.0	1142	18.1
Metriididae C-2	58	512.0	753	11.9
Other Copepoda - nauplius	55	512.0	714	11.3
Oithona spp.	30	512.0	389	6.2
Metriididae C-3	18	512.0	234	3.7
Metridia pacifica - adult M	26	256.0	169	2.7
Metridia pacifica C-4	41	128.0	133	2.1
Metridia pacifica C-5 F	20	256.0	130	2.1
Metridia pacifica - adult F	19	256.0	123	2.0
Pseudocalanus spp. - adult F	35	128.0	114	1.8
Neocalanus plumchrus C-5	32	128.0	104	1.6
Metridia pacifica C-5 M	12	256.0	78	1.2
Pseudocalanus spp. - adult M	18	128.0	58	0.9
Ostracoda <5mm	3	512.0	39	0.6
Metridia spp. - adult F	4	256.0	26	0.4
Pseudocalanus spp. C-5 M	31	18.3	14	0.2
Polychaeta <5mm	1	512.0	13	0.2
Larvacea	1	512.0	13	0.2
Hyperiididae <5mm	1	512.0	13	0.2
Cirripedia - nauplius <5mm	1	512.0	13	0.2
Calanus marshallae - adult M	24	18.3	11	0.2
Pseudocalanus spp. C-5 F	13	18.3	6	0.1
Calanus marshallae C-5	12	18.3	6	0.1
Chaetognatha 5-20mm	75	2.0	4	0.1
Neocalanus cristatus C-4	40	2.0	2	< 0.1
Euphausiacea - calyptopis 1	23	2.3	1	< 0.1
Other Copepoda >5mm	23	2.0	1	< 0.1
Pseudocalanus spp. C-4 F	19	2.3	1	< 0.1
Calanus marshallae - adult F	2	18.3	1	< 0.1
Calanus marshallae C-4	2	18.3	1	< 0.1
Neocalanus plumchrus C-4	15	2.3	1	< 0.1
Euphausiacea - calyptopis 2	12	2.3	1	< 0.1
Acartia spp.	12	2.3	1	< 0.1
Euphausiacea - calyptopis 3	11	2.3	1	< 0.1
Calanus pacificus C-5	10	2.3	1	< 0.1
Pseudocalanus spp. C-4 M	10	2.3	1	< 0.1
Neocalanus cristatus C-5	10	2.0	1	< 0.1
Calanus marshallae C-3	8	2.3	< 1	< 0.1
Euphausiacea - furcilia	8	2.3	< 1	< 0.1
Chaetognatha >20mm	7	2.0	< 1	< 0.1
Siphonophora >5mm	7	2.0	< 1	< 0.1
Hyperiididae >5mm	5	2.0	< 1	< 0.1
Mysidacea >5mm	3	2.0	< 1	< 0.1
Eucalanus bungii - adult M	3	2.0	< 1	< 0.1
Gammaridea >5mm	3	2.0	< 1	< 0.1
Polychaeta >5mm	2	2.0	< 1	< 0.1

Cnidaria - medusa >5mm	2	2.0	< 1	< 0.1
Calanus pacificus - adult F	1	2.3	< 1	< 0.1
Unidentified Calanoida C-2	1	2.3	< 1	< 0.1
Calanus marshallae C-2	1	2.3	< 1	< 0.1
Calanus pacificus - adult M	1	2.3	< 1	< 0.1
Unidentified Calanoida C-3	1	2.3	< 1	< 0.1
Eucalanus bungii C-5 F	1	2.0	< 1	< 0.1
Thysanoessa inermis A&J	1	2.0	< 1	< 0.1
Neocalanus cristatus - adult F	1	2.0	< 1	< 0.1
Natantia A&J >5mm	1	2.0	< 1	< 0.1
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		6310	100.	

STA. 121 56 37.4 N 156 24.7 W 14 May 86 6:25

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
210 150 - 163 116.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	253	6.4	139	26.1
Neocalanus plumchrus C-5	57	21.3	104	19.6
Metriididae C-1	106	6.4	58	10.9
Pseudocalanus spp. - adult F	40	9.1	31	5.9
Metridia pacifica - adult M	51	6.4	28	5.3
Oithona spp.	42	6.4	23	4.3
Metriididae C-3	39	6.4	21	4.0
Metriididae C-2	31	6.4	17	3.2
Metridia pacifica C-4	28	6.4	15	2.9
Metridia pacifica - adult F	24	6.4	13	2.5
Metridia pacifica C-5 F	22	6.4	12	2.3
Other Copepoda - nauplius	10	6.4	5	1.0
Other Copepoda 2-5mm	1	64.0	5	1.0
Metridia spp. - adult F	1	64.0	5	1.0
Calanus marshallae - adult M	22	2.8	5	1.0
Metridia pacifica C-5 M	9	6.4	5	0.9
Pseudocalanus spp. - adult M	6	9.1	5	0.9
Invertebrata - egg <5mm	6	6.4	3	0.6
Pseudocalanus spp. C-5 F	4	9.1	3	0.6
Euphausiacea - calyptopis 1	4	9.1	3	0.6
Larvacea	5	6.4	3	0.5
Pseudocalanus spp. C-5 M	3	9.1	2	0.4
?Pseudocalanus spp. C-3	3	9.1	2	0.4
Acartia spp.	3	9.1	2	0.4
Cirripedia - cypris <5mm	4	6.4	2	0.4
Calanus marshallae C-5	9	2.8	2	0.4
Calanus marshallae C-4	7	2.8	2	0.3
Polychaeta <5mm	3	6.4	2	0.3
Euphausiacea - calyptopis 2	2	9.1	2	0.3
?Pseudocalanus spp. C-2	2	9.1	2	0.3
Chaetognatha 5-20mm	7	2.0	1	0.2
Ostracoda <5mm	2	6.4	1	0.2
Other Copepoda >5mm	6	2.0	1	0.2
Unidentified Calanoida C-3	1	9.1	1	0.1
Euphausiacea - nauplius	1	9.1	1	0.1
Thecosomata <5mm	1	6.4	1	0.1
Siphonophora <5mm	1	6.4	1	0.1
Mysidacea <5mm	1	6.4	1	0.1
Calanus marshallae - adult F	2	2.8	< 1	0.1
Mysidacea >5mm	1	2.0	< 1	< 0.1
Neocalanus cristatus C-4	1	2.0	< 1	< 0.1
Eucalanus bungii - adult M	1	2.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	2.0	< 1	< 0.1
			532	100.

STA. 122 55 55.9 N 156 28.8 W 15 May 86 10:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
229 2 - 15 106.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	132	1024.0	12686	31.6
Euphausiacea - nauplius	51	1024.0	4901	12.2
Other Copepoda - nauplius	42	1024.0	4036	10.0
?Pseudocalanus spp. C-3	26	1024.0	2499	6.2
Pseudocalanus spp. - adult F	24	1024.0	2307	5.7
?Pseudocalanus spp. C-2	22	1024.0	2114	5.3
Pseudocalanus spp. C-4 M	37	512.0	1778	4.4
Pseudocalanus spp. C-5 M	33	512.0	1586	3.9
?Pseudocalanus spp. C-1	16	1024.0	1538	3.8
Pseudocalanus spp. C-4 F	26	512.0	1249	3.1
Pseudocalanus spp. - adult M	10	1024.0	961	2.4
Pseudocalanus spp. C-5 F	19	512.0	913	2.3
Larvacea	9	1024.0	865	2.2
Acartia spp.	35	256.0	841	2.1
Neocalanus plumchrus C-5	55	64.0	330	0.8
Metridia pacifica - adult F	42	64.0	252	0.6
Other Copepoda <2mm	2	1024.0	192	0.5
Euphausiacea - calyptopis 1	21	64.0	126	0.3
Euphausiacea - calyptopis 2	18	64.0	108	0.3
Calanus marshallae C-3	17	64.0	102	0.3
Metriididae C-1	1	1024.0	96	0.2
Gastropoda <5mm	1	1024.0	96	0.2
Cirripedia - nauplius <5mm	1	1024.0	96	0.2
Metriididae C-2	1	1024.0	96	0.2
Calanus marshallae C-2	14	64.0	84	0.2
Neocalanus plumchrus C-4	30	21.3	60	0.1
Metridia pacifica C-5 M	37	9.1	32	0.1
Calanus marshallae C-4	15	21.3	30	0.1
Thysanoessa inermis A&J	69	4.0	26	0.1
Euphausiacea - calyptopis 3	4	64.0	24	0.1
Unidentified Calanoida C-2	4	64.0	24	0.1
Calanus marshallae - adult F	12	21.3	24	0.1
Metridia pacifica C-5 F	27	9.1	23	0.1
Chaetognatha 5-20mm	35	4.0	13	< 0.1
Unidentified Calanoida C-3	2	64.0	12	< 0.1
Calanus marshallae C-1	2	64.0	12	< 0.1
Metridia pacifica C-4	13	9.1	11	< 0.1
Euphausiacea - furcilia	11	9.1	9	< 0.1
Calanus marshallae C-5	4	21.3	8	< 0.1
Neocalanus plumchrus C-2	1	64.0	6	< 0.1
Cnidaria - medusa >5mm	16	4.0	6	< 0.1
Chaetognatha >20mm	11	4.0	4	< 0.1
Thysanoessa spinifera A&J	5	4.0	2	< 0.1
Other Copepoda >5mm	1	4.0	< 1	< 0.1
Eucalanus bungii - adult F	1	4.0	< 1	< 0.1
Nematoda >5mm	1	4.0	< 1	< 0.1
Thysanoessa longipes A&J	1	4.0	< 1	< 0.1

Euphausia pacifica A&J

1	4.0	< 1	< 0.1
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	40182	100.	

STA. 122 55 55.9 N 156 28.8 W 15 May 86 10:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
229 15 - 29 82.8 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	99	1024.0	12251	22.2
Euphausiacea - nauplius	77	1024.0	9528	17.2
Other Copepoda - nauplius	45	1024.0	5569	10.1
?Pseudocalanus spp. C-3	38	1024.0	4702	8.5
Pseudocalanus spp. C-5 M	26	1024.0	3217	5.8
?Pseudocalanus spp. C-1	24	1024.0	2970	5.4
?Pseudocalanus spp. C-2	23	1024.0	2846	5.1
Pseudocalanus spp. - adult F	20	1024.0	2475	4.5
Pseudocalanus spp. C-4 M	16	1024.0	1980	3.6
Pseudocalanus spp. - adult M	13	1024.0	1609	2.9
Pseudocalanus spp. C-5 F	12	1024.0	1485	2.7
Pseudocalanus spp. C-4 F	12	1024.0	1485	2.7
Larvacea	6	1024.0	742	1.3
Invertebrata - egg <5mm	6	1024.0	742	1.3
Acartia spp.	38	113.8	523	0.9
Euphausiacea - calyptopis 1	36	113.8	495	0.9
Neocalanus plumchrus C-5	30	113.8	413	0.7
Hyperiididae <5mm	2	1024.0	247	0.4
Thecosomata <5mm	2	1024.0	247	0.4
Euphausiacea - calyptopis 2	14	113.8	193	0.3
Metridia pacifica - adult F	91	14.0	154	0.3
Calanus marshallae C-1	10	113.8	138	0.2
Calanus marshallae C-3	9	113.8	124	0.2
Metridiidae C-1	1	1024.0	124	0.2
Chaetognatha <5mm	1	1024.0	124	0.2
Cirripedia - nauplius <5mm	1	1024.0	124	0.2
Metridiidae C-3	1	1024.0	124	0.2
Echinodermata - larva <5mm	1	1024.0	124	0.2
Calanus marshallae C-2	8	113.8	110	0.2
Euphausiacea - calyptopis 3	5	113.8	69	0.1
Neocalanus plumchrus C-4	34	14.0	58	0.1
Calanus marshallae C-4	28	14.0	47	0.1
Metridia spp. - adult F	23	14.0	39	0.1
Metridia pacifica C-5 M	20	14.0	34	0.1
Metridia pacifica C-5 F	19	14.0	32	0.1
Cnidaria - medusa >5mm	30	8.0	29	0.1
Chaetognatha 5-20mm	29	8.0	28	0.1
Thysanoessa inermis A&J	29	8.0	28	0.1
Calanus marshallae - adult F	12	14.0	20	< 0.1
Euphausiacea - furcilia	10	14.0	17	< 0.1
Metridia pacifica C-4	7	14.0	12	< 0.1
Calanus marshallae C-5	7	14.0	12	< 0.1
Thysanoessa spinifera A&J	7	8.0	7	< 0.1
Chaetognatha >20mm	3	8.0	3	< 0.1
Eucalanus bungii - adult F	2	8.0	2	< 0.1
Other Copepoda >5mm	2	8.0	2	< 0.1
Calanus marshallae - adult M	1	14.0	2	< 0.1

Eucalanus bungii C-5 F
 Hyperiidea >5mm

1	8.0	1	< 0.1
1	8.0	1	< 0.1
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	55306		100.

STA. 122 55 55.9 N 156 28.8 W 15 May 86 10:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
229 30 - 44 103.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	79	2048.0	15567	25.6
Euphausiacea - nauplius	52	2048.0	10247	16.8
Other Copepoda - nauplius	33	2048.0	6503	10.7
Invertebrata - egg <5mm	27	2048.0	5321	8.7
?Pseudocalanus spp. C-1	22	2048.0	4335	7.1
?Pseudocalanus spp. C-3	15	2048.0	2956	4.9
?Pseudocalanus spp. C-2	11	2048.0	2168	3.6
Euphausiacea - calyptopis 1	27	682.7	1774	2.9
Pseudocalanus spp. C-5 M	24	682.7	1577	2.6
Pseudocalanus spp. - adult M	21	682.7	1379	2.3
Pseudocalanus spp. C-4 M	19	682.7	1248	2.1
Pseudocalanus spp. - adult F	19	682.7	1248	2.1
Larvacea	6	2048.0	1182	1.9
Echinodermata - larva <5mm	5	2048.0	985	1.6
Neocalanus plumchrus C-5	81	107.8	840	1.4
Pseudocalanus spp. C-5 F	9	682.7	591	1.0
Cirripedia - nauplius <5mm	3	2048.0	591	1.0
Pseudocalanus spp. C-4 F	8	682.7	526	0.9
Acartia spp.	28	107.8	290	0.5
Euphausiacea - calyptopis 2	4	682.7	263	0.4
Thecosomata <5mm	1	2048.0	197	0.3
Calanus marshallae C-2	14	107.8	145	0.2
Calanus marshallae C-3	12	107.8	124	0.2
Calanus marshallae C-1	12	107.8	124	0.2
Chaetognatha 5-20mm	64	16.0	99	0.2
Metridia pacifica - adult F	31	24.7	74	0.1
Neocalanus plumchrus C-4	29	24.7	69	0.1
Calanus marshallae C-4	27	24.7	64	0.1
Euphausiacea - furcilia	24	24.7	57	0.1
Metridia pacifica C-5 M	24	24.7	57	0.1
Metridia spp. - adult F	20	24.7	48	0.1
Metridia pacifica C-5 F	18	24.7	43	0.1
Cnidaria - medusa >5mm	26	16.0	40	0.1
Metridia pacifica C-4	15	24.7	36	0.1
Calanus marshallae C-5	10	24.7	24	< 0.1
Calanus marshallae - adult F	7	24.7	17	< 0.1
Chaetognatha >20mm	5	16.0	8	< 0.1
Eucalanus bungii - adult F	3	16.0	5	< 0.1
Thysanoessa inermis A&J	2	16.0	3	< 0.1
Metridia spp. C-5 M	1	24.7	2	< 0.1
Metridia pacifica - adult M	1	24.7	2	< 0.1
Hyperiidia >5mm	1	16.0	2	< 0.1
Thysanoessa spinifera A&J	1	16.0	2	< 0.1
Neocalanus cristatus C-5	1	16.0	2	< 0.1
			60833	100.

STA. 122 55 55.9 N 156 28.8 W 15 May 86 10:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
229 45 - 60 118.0 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	76	2048.0	13191	24.1
Other Copepoda - nauplius	45	2048.0	7810	14.3
Invertebrata - egg <5mm	26	2048.0	4513	8.2
Cirripedia - nauplius <5mm	24	2048.0	4165	7.6
Metriididae C-1	19	2048.0	3298	6.0
Neocalanus plumchrus C-5	85	409.6	2951	5.4
?Pseudocalanus spp. C-3	12	2048.0	2083	3.8
Pseudocalanus spp. - adult F	56	409.6	1944	3.6
?Pseudocalanus spp. C-2	10	2048.0	1736	3.2
?Pseudocalanus spp. C-1	10	2048.0	1736	3.2
Euphausiacea - nauplius	10	2048.0	1736	3.2
Pseudocalanus spp. C-5 F	33	409.6	1145	2.1
Pseudocalanus spp. C-4 M	32	409.6	1111	2.0
Pseudocalanus spp. C-4 F	32	409.6	1111	2.0
Other Copepoda <2mm	6	2048.0	1041	1.9
Pseudocalanus spp. - adult M	28	409.6	972	1.8
Pseudocalanus spp. C-5 M	22	409.6	764	1.4
Cirripedia - cypris <5mm	4	2048.0	694	1.3
Metriididae C-3	2	2048.0	347	0.6
Chaetognatha 5-20mm	90	32.0	244	0.4
Calanus marshallae C-3	43	55.4	202	0.4
Neocalanus plumchrus C-4	38	55.4	178	0.3
Thecosomata <5mm	1	2048.0	174	0.3
Polychaeta <5mm	1	2048.0	174	0.3
Metriididae C-2	1	2048.0	174	0.3
Larvacea	1	2048.0	174	0.3
Metridia pacifica - adult F	35	55.4	164	0.3
Calanus marshallae C-4	34	55.4	160	0.3
Metridia spp. - adult F	26	55.4	122	0.2
Calanus marshallae C-2	24	55.4	113	0.2
Calanus marshallae C-5	21	55.4	99	0.2
Metridia pacifica C-4	14	55.4	66	0.1
Calanus marshallae - adult F	14	55.4	66	0.1
Euphausiacea - calyptopis 1	11	55.4	52	0.1
Euphausiacea - calyptopis 2	8	55.4	38	0.1
Calanus marshallae C-1	7	55.4	33	0.1
Metridia pacifica C-5 F	6	55.4	28	0.1
Calanus marshallae - adult M	5	55.4	23	< 0.1
Metridia pacifica C-5 M	5	55.4	23	< 0.1
Unidentified Calanoida C-2	5	55.4	23	< 0.1
Metridia pacifica - adult M	3	55.4	14	< 0.1
Chaetognatha >20mm	5	32.0	14	< 0.1
Neocalanus cristatus C-5	3	32.0	8	< 0.1
Neocalanus plumchrus C-3	1	55.4	5	< 0.1
Unidentified Calanoida C-3	1	55.4	5	< 0.1
Euphausiacea - calyptopis 3	1	55.4	5	< 0.1
Hyperiidia >5mm	1	32.0	3	< 0.1

Eucalanus bungii - adult F	1	32.0	3	< 0.1
Cnidaria - medusa >5mm	1	32.0	3	< 0.1
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			54731	100.

STA. 122 55 55.9 N 156 28.8 W 15 May 86 10:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
229 60 - 80 188.3 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	106	1024.0	5764	20.9
Other Copepoda - nauplius	59	1024.0	3208	11.6
Euphausiacea - nauplius	57	1024.0	3100	11.2
Invertebrata - egg <5mm	36	1024.0	1958	7.1
?Pseudocalanus spp. C-3	32	1024.0	1740	6.3
Neocalanus plumchrus C-5	31	1024.0	1686	6.1
Pseudocalanus spp. - adult F	24	1024.0	1305	4.7
Cirripedia - nauplius <5mm	19	1024.0	1033	3.7
?Pseudocalanus spp. C-2	18	1024.0	979	3.6
Pseudocalanus spp. C-4 M	16	1024.0	870	3.2
Pseudocalanus spp. C-5 M	16	1024.0	870	3.2
?Pseudocalanus spp. C-1	14	1024.0	761	2.8
Pseudocalanus spp. - adult M	14	1024.0	761	2.8
Pseudocalanus spp. C-4 F	13	1024.0	707	2.6
Pseudocalanus spp. C-5 F	12	1024.0	653	2.4
Euphausiacea - calyptopis 1	31	204.8	337	1.2
Other Copepoda <2mm	5	1024.0	272	1.0
Calanus marshallae C-3	16	204.8	174	0.6
Larvacea	3	1024.0	163	0.6
Echinodermata - larva <5mm	2	1024.0	109	0.4
Calanus marshallae C-2	10	204.8	109	0.4
Neocalanus plumchrus C-4	60	27.7	88	0.3
Chaetognatha 5-20mm	96	16.0	82	0.3
Calanus marshallae C-1	7	204.8	76	0.3
Euphausiacea - calyptopis 2	7	204.8	76	0.3
Metridia pacifica - adult F	46	27.7	68	0.2
Thecosomata <5mm	1	1024.0	54	0.2
Cirripedia - cypris <5mm	1	1024.0	54	0.2
Metridiidae C-2	1	1024.0	54	0.2
Polychaeta <5mm	1	1024.0	54	0.2
Metridiidae C-3	1	1024.0	54	0.2
Calanus marshallae C-4	34	27.7	50	0.2
Metridia pacifica C-5 F	25	27.7	37	0.1
Metridia pacifica C-4	24	27.7	35	0.1
Unidentified Calanoida C-3	3	204.8	33	0.1
Unidentified Calanoida C-2	3	204.8	33	0.1
Metridia spp. - adult F	16	27.7	24	0.1
Euphausiacea - calyptopis 3	2	204.8	22	0.1
Calanus marshallae C-5	14	27.7	21	0.1
Metridia pacifica C-5 M	13	27.7	19	0.1
Calanus marshallae - adult F	11	27.7	16	0.1
Euphausiacea - furcilia	9	27.7	13	< 0.1
Chaetognatha >20mm	11	16.0	9	< 0.1
Cnidaria - medusa >5mm	7	16.0	6	< 0.1
Acartia spp.	4	27.7	6	< 0.1
Eucalanus bungii - adult F	5	16.0	4	< 0.1
Calanus marshallae - adult M	2	27.7	3	< 0.1

Neocalanus cristatus C-5	2	16.0	2	< 0.1
Eucalanus bungii C-2	1	27.7	1	< 0.1
Thysanoessa spinifera A&J	1	16.0	1	< 0.1
Other Copepoda >5mm	1	16.0	1	< 0.1
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		27555	100.	

STA. 122 55 55.9 N 156 28.8 W 15 May 86 10:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
229 80 - 100 157.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	64	256.0	1041	20.3
Other Copepoda - nauplius	49	256.0	797	15.5
Metriididae C-1	47	256.0	765	14.9
Other Copepoda <2mm	33	256.0	537	10.5
Invertebrata - egg <5mm	21	256.0	342	6.7
Cirripedia - nauplius <5mm	19	256.0	309	6.0
Pseudocalanus spp. - adult F	116	28.4	209	4.1
Metriididae C-2	11	256.0	179	3.5
Cirripedia - cypris <5mm	7	256.0	114	2.2
Metridia pacifica - adult F	60	28.4	108	2.1
Metridia spp. - adult F	60	28.4	108	2.1
Neocalanus plumchrus C-5	55	28.4	99	1.9
Pseudocalanus spp. - adult M	43	28.4	78	1.5
Polychaeta <5mm	4	256.0	65	1.3
Metriididae C-3	3	256.0	49	1.0
Pseudocalanus spp. C-5 F	19	28.4	34	0.7
?Pseudocalanus spp. C-2	2	256.0	33	0.6
Pseudocalanus spp. C-5 M	16	28.4	29	0.6
Metridia pacifica C-5 F	59	6.2	23	0.5
Chaetognatha 5-20mm	73	4.0	19	0.4
Metridia pacifica C-4	42	6.2	17	0.3
Metridia spp. C-4	42	6.2	17	0.3
Larvacea	1	256.0	16	0.3
?Pseudocalanus spp. C-3	1	256.0	16	0.3
Euphausiacea - nauplius	1	256.0	16	0.3
Brachyura - larva	1	256.0	16	0.3
Other Copepoda damaged	1	256.0	16	0.3
?Pseudocalanus spp. C-1	1	256.0	16	0.3
Calanus marshallae C-4	24	6.2	9	0.2
Other Copepoda >5mm	35	4.0	9	0.2
Metridia pacifica C-5 M	20	6.2	8	0.2
Calanus marshallae C-5	17	6.2	7	0.1
Neocalanus cristatus C-4	16	4.0	4	0.1
Neocalanus plumchrus C-4	9	6.2	4	0.1
Calanus marshallae - adult M	8	6.2	3	0.1
Pseudocalanus spp. C-4 F	7	6.2	3	0.1
Metridia spp. - adult M	1	28.4	2	< 0.1
Metridia pacifica - adult M	1	28.4	2	< 0.1
Pseudocalanus spp. C-4 M	4	6.2	2	< 0.1
Calanus marshallae - adult F	3	6.2	1	< 0.1
Euphausiacea - calyptopis 1	3	6.2	1	< 0.1
Calanus marshallae C-3	3	6.2	1	< 0.1
Neocalanus cristatus C-5	4	4.0	1	< 0.1
Chaetognatha >20mm	4	4.0	1	< 0.1
Calanus marshallae C-2	2	6.2	1	< 0.1
Acartia spp.	2	6.2	1	< 0.1
Neocalanus plumchrus C-3	2	6.2	1	< 0.1

Unidentified Calanoida C-1	1	6.2	< 1	< 0.1
Calanus pacificus C-5	1	6.2	< 1	< 0.1
Thysanoessa inermis A&J	1	4.0	< 1	< 0.1
Eucalanus bungii - adult M	1	4.0	< 1	< 0.1
Gammaridea >5mm	1	4.0	< 1	< 0.1
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		5130	100.	

STA. 122 55 55.9 N 156 28.8 W 15 May 86 10:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
229 100 - 149 343.5 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	108	256.0	805	31.0
Oithona spp.	40	256.0	298	11.5
Other Copepoda - nauplius	33	256.0	246	9.5
Metriididae C-2	27	256.0	201	7.7
Metriididae C-1	24	256.0	179	6.9
Cirripedia - cypris <5mm	17	256.0	127	4.9
Pseudocalanus spp. - adult F	37	85.3	92	3.5
Invertebrata - egg <5mm	12	256.0	89	3.4
Metridia pacifica - adult F	36	85.3	89	3.4
Metriididae C-3	10	256.0	75	2.9
Neocalanus plumchrus C-5	26	85.3	65	2.5
Metridia pacifica C-4	72	23.3	49	1.9
Metridia pacifica - adult M	12	85.3	30	1.1
Pseudocalanus spp. - adult M	10	85.3	25	1.0
Metridia pacifica C-5 F	34	23.3	23	0.9
Cirripedia - nauplius <5mm	3	256.0	22	0.9
Larvacea	3	256.0	22	0.9
Polychaeta <5mm	3	256.0	22	0.9
Euphausiacea - nauplius	3	256.0	22	0.9
Pseudocalanus spp. C-5 M	22	23.3	15	0.6
Metridia pacifica C-5 M	15	23.3	10	0.4
Pseudocalanus spp. C-5 F	13	23.3	9	0.3
Chaetognatha 5-20mm	67	4.0	8	0.3
Natantia - larva	1	256.0	7	0.3
Other Copepoda 2-5mm	1	256.0	7	0.3
Brachyura - larva	1	256.0	7	0.3
?Pseudocalanus spp. C-1	1	256.0	7	0.3
?Pseudocalanus spp. C-3	1	256.0	7	0.3
Neocalanus plumchrus - adult F	1	256.0	7	0.3
Calanus marshallae - adult M	24	9.5	7	0.3
Metridia spp. - adult F	2	85.3	5	0.2
Pseudocalanus spp. C-4 M	14	9.5	4	0.1
Calanus marshallae C-5	10	9.5	3	0.1
Other Copepoda >5mm	23	4.0	3	0.1
Metridia spp. - adult M	1	85.3	2	0.1
Neocalanus cristatus C-4	15	4.0	2	0.1
Calanus marshallae C-4	5	9.5	1	0.1
Calanus marshallae - adult F	5	9.5	1	0.1
Neocalanus cristatus C-5	8	4.0	1	< 0.1
Pseudocalanus spp. C-4 F	3	9.5	1	< 0.1
Hyperiididae >5mm	7	4.0	1	< 0.1
Gammaridea >5mm	4	4.0	< 1	< 0.1
Thysanoessa inermis A&J	2	4.0	< 1	< 0.1
Siphonophora >5mm	2	4.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	4.0	< 1	< 0.1
Mysidacea >5mm	1	4.0	< 1	< 0.1
Chaetognatha >20mm	1	4.0	< 1	< 0.1

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2599	100.

STA. 122 55 55.9 N 156 28.8 W 15 May 86 10:43

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
229 150 - 172 152.7 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	177	128.0	1484	46.7
Metridia pacifica - adult M	43	128.0	360	11.3
Metridia pacifica - adult F	22	128.0	184	5.8
Metriididae C-1	21	128.0	176	5.5
Metriididae C-2	19	128.0	159	5.0
Neocalanus plumchrus C-5	59	32.0	124	3.9
Metridia pacifica C-5 F	23	64.0	96	3.0
Oithona spp.	39	32.0	82	2.6
Metridia pacifica C-4	35	32.0	73	2.3
Pseudocalanus spp. - adult F	30	32.0	63	2.0
Other Copepoda - nauplius	6	128.0	50	1.6
Metridia pacifica C-5 M	10	64.0	42	1.3
Euphausiacea - nauplius	5	128.0	42	1.3
Other Copepoda 2-5mm	4	128.0	34	1.1
Ostracoda <5mm	4	128.0	34	1.1
Metriididae C-3	4	128.0	34	1.1
Polychaeta <5mm	2	128.0	17	0.5
Cirripedia - nauplius <5mm	2	128.0	17	0.5
Pseudocalanus spp. C-5 F	60	3.6	14	0.4
Pseudocalanus spp. C-5 M	56	3.6	13	0.4
Pseudocalanus spp. - adult M	6	32.0	13	0.4
Metridia spp. - adult F	1	128.0	8	0.3
?Pseudocalanus spp. C-1	1	128.0	8	0.3
Natantia - larva	1	128.0	8	0.3
Chaetognatha 5-20mm	50	2.0	7	0.2
Pseudocalanus spp. C-4 M	22	3.6	5	0.2
Neocalanus plumchrus - adult M	18	3.6	4	0.1
Metridia spp. C-4	2	32.0	4	0.1
Pseudocalanus spp. C-4 F	17	3.6	4	0.1
Acartia spp.	13	3.6	3	0.1
Calanus pacificus C-5	12	3.6	3	0.1
Euphausiacea - calyptopis 1	6	3.6	1	< 0.1
Siphonophora >5mm	9	2.0	1	< 0.1
Euphausiacea - furcilia	5	3.6	1	< 0.1
Other Copepoda >5mm	8	2.0	1	< 0.1
Hyperiididae >5mm	8	2.0	1	< 0.1
Neocalanus plumchrus C-4	3	3.6	1	< 0.1
Neocalanus cristatus C-4	4	2.0	1	< 0.1
Neocalanus plumchrus - adult F	2	3.6	< 1	< 0.1
Calanus marshallae C-3	2	3.6	< 1	< 0.1
Euphausiacea - calyptopis 2	2	3.6	< 1	< 0.1
Neocalanus plumchrus C-5	2	3.6	< 1	< 0.1
Unidentified Calanoida C-2	2	3.6	< 1	< 0.1
Chaetognatha >20mm	3	2.0	< 1	< 0.1
Cumacea >5mm	2	2.0	< 1	< 0.1
Neocalanus plumchrus C-4	1	3.6	< 1	< 0.1
Unidentified Calanoida C-3	1	3.6	< 1	< 0.1

Euphausiacea - calyptopis 3	1	3.6	< 1	< 0.1
Calanus marshallae C-2	1	3.6	< 1	< 0.1
Unidentified Calanoida C-1	1	3.6	< 1	< 0.1
Calanus marshallae C-1	1	3.6	< 1	< 0.1
Mysidacea >5mm	1	2.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	2.0	< 1	< 0.1
Nematoda >5mm	1	2.0	< 1	< 0.1
Gammaridea >5mm	1	2.0	< 1	< 0.1
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		3177		100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
223 2 - 14 91.3 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	108	1024.0	12116	23.1
Euphausiacea - nauplius	79	1024.0	8862	16.9
Other Copepoda - nauplius	60	1024.0	6731	12.8
?Pseudocalanus spp. C-2	28	1024.0	3141	6.0
?Pseudocalanus spp. C-3	27	1024.0	3029	5.8
Pseudocalanus spp. - adult F	23	1024.0	2580	4.9
Invertebrata - egg <5mm	21	1024.0	2356	4.5
?Pseudocalanus spp. C-1	16	1024.0	1795	3.4
Pseudocalanus spp. C-4 F	40	341.3	1496	2.8
Cirripedia - nauplius <5mm	12	1024.0	1346	2.6
Euphausiacea - calyptopis 1	34	341.3	1271	2.4
Pseudocalanus spp. C-4 M	31	341.3	1159	2.2
Neocalanus plumchrus C-5	31	341.3	1159	2.2
Pseudocalanus spp. C-5 M	30	341.3	1122	2.1
Pseudocalanus spp. C-5 F	22	341.3	823	1.6
Pseudocalanus spp. - adult M	7	1024.0	785	1.5
Cirripedia - cypris <5mm	4	1024.0	449	0.9
Acartia spp.	42	93.1	428	0.8
Polychaeta <5mm	3	1024.0	337	0.6
Larvacea	2	1024.0	224	0.4
Other Copepoda <2mm	2	1024.0	224	0.4
Calanus marshallae C-2	19	93.1	194	0.4
Calanus marshallae C-3	17	93.1	173	0.3
Calanus marshallae C-4	94	13.7	141	0.3
Echinodermata - larva <5mm	1	1024.0	112	0.2
Euphausiacea - calyptopis 2	3	341.3	112	0.2
Calanus marshallae C-1	9	93.1	92	0.2
Chaetognatha 5-20mm	90	8.0	79	0.2
Neocalanus plumchrus C-4	47	13.7	71	0.1
Calanus marshallae - adult F	19	13.7	29	0.1
Unidentified Calanoida C-2	2	93.1	20	< 0.1
Calanus marshallae C-5	13	13.7	20	< 0.1
Cnidaria - medusa >5mm	21	8.0	18	< 0.1
Unidentified Calanoida C-1	1	93.1	10	< 0.1
Neocalanus plumchrus C-3	1	93.1	10	< 0.1
Eucalanus bungii - adult F	5	8.0	4	< 0.1
Neocalanus cristatus C-4	2	8.0	2	< 0.1
Metridia pacifica - adult F	1	13.7	2	< 0.1
Eucalanus bungii C-5 M	1	8.0	1	< 0.1
			52523	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
223 15 - 29 93.1 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	118	2048.0	25966	25.1
Euphausiacea - nauplius	87	2048.0	19144	18.5
Other Copepoda - nauplius	62	2048.0	13643	13.2
?Pseudocalanus spp. C-2	26	2048.0	5721	5.5
?Pseudocalanus spp. C-3	24	2048.0	5281	5.1
Pseudocalanus spp. - adult F	16	2048.0	3521	3.4
?Pseudocalanus spp. C-1	15	2048.0	3301	3.2
Cirripedia - nauplius <5mm	13	2048.0	2861	2.8
Pseudocalanus spp. - adult M	12	2048.0	2641	2.6
Euphausiacea - calyptopis 1	24	1024.0	2641	2.6
Invertebrata - egg <5mm	11	2048.0	2421	2.3
Pseudocalanus spp. C-5 M	19	1024.0	2090	2.0
Cirripedia - cypris <5mm	8	2048.0	1760	1.7
Pseudocalanus spp. C-4 M	16	1024.0	1760	1.7
Pseudocalanus spp. C-5 F	14	1024.0	1540	1.5
Pseudocalanus spp. C-4 F	12	1024.0	1320	1.3
Neocalanus plumchrus C-5	58	204.8	1276	1.2
Metridia pacifica C-4	5	2048.0	1100	1.1
Chaetognatha <5mm	4	2048.0	880	0.9
Polychaeta <5mm	4	2048.0	880	0.9
Other Copepoda <2mm	3	2048.0	660	0.6
Euphausiacea - calyptopis 2	5	1024.0	550	0.5
Larvacea	2	2048.0	440	0.4
Calanus marshallae C-3	15	204.8	330	0.3
Calanus marshallae C-2	12	204.8	264	0.3
Echinodermata - larva <5mm	1	2048.0	220	0.2
Foraminifera <5mm	1	2048.0	220	0.2
Gastropoda <5mm	1	2048.0	220	0.2
Calanus marshallae C-1	8	204.8	176	0.2
Euphausiacea - calyptopis 3	1	1024.0	110	0.1
Acartia spp.	69	14.8	110	0.1
Calanus marshallae C-4	64	14.8	102	0.1
Chaetognatha 5-20mm	94	8.0	81	0.1
Neocalanus plumchrus C-4	29	14.8	46	< 0.1
Calanus marshallae C-5	12	14.8	19	< 0.1
Cnidaria - medusa >5mm	22	8.0	19	< 0.1
Euphausiacea - furcilia	10	14.8	16	< 0.1
Calanus marshallae - adult F	9	14.8	14	< 0.1
Metridia pacifica - adult F	3	14.8	5	< 0.1
Eucalanus bungii - adult F	4	8.0	3	< 0.1
Neocalanus cristatus C-5	2	8.0	2	< 0.1
Metridia pacifica C-5 F	1	14.8	2	< 0.1
Calanus marshallae - adult M	1	14.8	2	< 0.1
Chaetognatha >20mm	1	8.0	1	< 0.1
			103360	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
223 30 - 44 121.7 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	68	2048.0	11439	19.2
Other Copepoda - nauplius	63	2048.0	10598	17.8
Euphausiacea - nauplius	58	2048.0	9757	16.4
?Pseudocalanus spp. C-3	16	2048.0	2692	4.5
?Pseudocalanus spp. C-2	14	2048.0	2355	4.0
Larvacea	13	2048.0	2187	3.7
Cirripedia - nauplius <5mm	12	2048.0	2019	3.4
Pseudocalanus spp. - adult M	24	1024.0	2019	3.4
Pseudocalanus spp. C-5 M	21	1024.0	1766	3.0
?Pseudocalanus spp. C-1	10	2048.0	1682	2.8
Pseudocalanus spp. C-4 M	20	1024.0	1682	2.8
Invertebrata - egg <5mm	10	2048.0	1682	2.8
Pseudocalanus spp. - adult F	17	1024.0	1430	2.4
Pseudocalanus spp. C-4 F	16	1024.0	1346	2.3
Euphausiacea - calyptopis 1	62	204.8	1043	1.8
Neocalanus plumchrus C-5	56	204.8	942	1.6
Acartia spp.	50	204.8	841	1.4
Cirripedia - cypris <5mm	5	2048.0	841	1.4
Pseudocalanus spp. C-5 F	7	1024.0	589	1.0
Echinodermata - larva <5mm	3	2048.0	505	0.8
Other Copepoda <2mm	3	2048.0	505	0.8
Polychaeta <5mm	3	2048.0	505	0.8
Calanus marshallae C-1	15	204.8	252	0.4
Thecosomata <5mm	1	2048.0	168	0.3
Calanus marshallae C-3	9	204.8	151	0.3
Euphausiacea - calyptopis 2	7	204.8	118	0.2
Calanus marshallae C-2	7	204.8	118	0.2
Calanus marshallae C-4	77	14.8	94	0.2
Neocalanus plumchrus C-4	48	14.8	58	0.1
Chaetognatha 5-20mm	75	8.0	49	0.1
Euphausiacea - furcilia	36	14.8	44	0.1
Euphausiacea - calyptopis 3	2	204.8	34	0.1
Cnidaria - medusa >5mm	36	8.0	24	< 0.1
Calanus marshallae C-5	17	14.8	21	< 0.1
Calanus marshallae - adult F	11	14.8	13	< 0.1
Metridia pacifica - adult M	6	14.8	7	< 0.1
Chaetognatha >20mm	10	8.0	7	< 0.1
Metridia pacifica C-4	5	14.8	6	< 0.1
Eucalanus bungii - adult F	7	8.0	5	< 0.1
Calanus marshallae - adult M	2	14.8	2	< 0.1
Metridia pacifica C-5 M	1	14.8	1	< 0.1
Neocalanus cristatus C-5	1	8.0	1	< 0.1
Neocalanus cristatus C-4	1	8.0	1	< 0.1
			59599	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
223 45 - 60 111.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	81	1024.0	7435	25.6
Euphausiacea - nauplius	47	1024.0	4314	14.9
Other Copepoda - nauplius	27	1024.0	2478	8.5
Pseudocalanus spp. - adult F	23	1024.0	2111	7.3
Pseudocalanus spp. C-5 M	18	1024.0	1652	5.7
?Pseudocalanus spp. C-2	14	1024.0	1285	4.4
?Pseudocalanus spp. C-3	13	1024.0	1193	4.1
Pseudocalanus spp. C-4 M	30	341.3	918	3.2
Neocalanus plumchrus C-5	29	341.3	887	3.1
Invertebrata - egg <5mm	9	1024.0	826	2.8
Pseudocalanus spp. C-5 F	8	1024.0	734	2.5
?Pseudocalanus spp. C-1	8	1024.0	734	2.5
Pseudocalanus spp. - adult M	7	1024.0	643	2.2
Larvacea	6	1024.0	551	1.9
Cirripedia - nauplius <5mm	6	1024.0	551	1.9
Pseudocalanus spp. C-4 F	17	341.3	520	1.8
Other Copepoda <2mm	5	1024.0	459	1.6
Cirripedia - cypris <5mm	5	1024.0	459	1.6
Euphausiacea - calyptopis 1	36	93.1	300	1.0
Acartia spp.	69	23.8	147	0.5
Calanus marshallae C-3	16	93.1	134	0.5
Calanus marshallae C-1	14	93.1	117	0.4
Metriididae C-2	1	1024.0	92	0.3
Gastropoda - veliger <5mm	1	1024.0	92	0.3
Chaetognatha 5-20mm	108	8.0	77	0.3
Calanus marshallae C-2	9	93.1	75	0.3
Calanus marshallae C-4	29	23.8	62	0.2
Neocalanus plumchrus C-4	21	23.8	45	0.2
Euphausiacea - calyptopis 2	5	93.1	42	0.1
Calanus marshallae - adult F	9	23.8	19	0.1
Calanus marshallae C-5	8	23.8	17	0.1
Metridia pacifica C-4	5	23.8	11	< 0.1
Unidentified Calanoida C-2	1	93.1	8	< 0.1
Unidentified Calanoida C-3	1	93.1	8	< 0.1
Euphausiacea - calyptopis 3	1	93.1	8	< 0.1
Cnidaria - medusa >5mm	8	8.0	6	< 0.1
Chaetognatha >20mm	6	8.0	4	< 0.1
Metridia pacifica C-5 M	2	23.8	4	< 0.1
Eucalanus bungii - adult F	3	8.0	2	< 0.1
Neocalanus cristatus C-5	3	8.0	2	< 0.1
Metridia pacifica C-5 F	1	23.8	2	< 0.1
			29026	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
223 61 - 80 137.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	104	512.0	3869	25.9
?Pseudocalanus spp. C-2	33	512.0	1228	8.2
Other Copepoda - nauplius	33	512.0	1228	8.2
Euphausiacea - nauplius	27	512.0	1005	6.7
Pseudocalanus spp. - adult F	26	512.0	967	6.5
?Pseudocalanus spp. C-3	25	512.0	930	6.2
Neocalanus plumchrus C-5	38	256.0	707	4.7
Pseudocalanus spp. - adult M	17	512.0	632	4.2
Pseudocalanus spp. C-5 M	32	256.0	595	4.0
Pseudocalanus spp. C-4 M	31	256.0	577	3.9
Larvacea	14	512.0	521	3.5
?Pseudocalanus spp. C-1	13	512.0	484	3.2
Pseudocalanus spp. C-5 F	23	256.0	428	2.9
Invertebrata - egg <5mm	7	512.0	260	1.7
Pseudocalanus spp. C-4 F	13	256.0	242	1.6
Cirripecta - cypris <5mm	4	512.0	149	1.0
Other Copepoda <2mm	4	512.0	149	1.0
Echinodermata - larva <5mm	3	512.0	112	0.7
Metridia pacifica C-5 M	101	15.1	111	0.7
Calanus marshallae C-3	73	15.1	80	0.5
Chaetognatha <5mm	2	512.0	74	0.5
Cirripecta - nauplius <5mm	2	512.0	74	0.5
Metridiidae C-3	2	512.0	74	0.5
Calanus marshallae C-2	53	15.1	58	0.4
Calanus marshallae C-4	44	15.1	48	0.3
Chaetognatha 5-20mm	72	8.0	42	0.3
Calanus marshallae C-1	38	15.1	42	0.3
Metridia pacifica C-4	36	15.1	40	0.3
Acartia spp.	34	15.1	37	0.2
Hyperiidia <5mm	1	512.0	37	0.2
Metridia pacifica - adult F	28	15.1	31	0.2
Neocalanus plumchrus C-4	27	15.1	30	0.2
Euphausiacea - calytopis 1	25	15.1	27	0.2
Calanus marshallae C-5	13	15.1	14	0.1
Metridia pacifica C-5 F	12	15.1	13	0.1
Calanus marshallae - adult F	8	15.1	9	0.1
Neocalanus plumchrus C-3	7	15.1	8	0.1
Chaetognatha >20mm	13	8.0	8	0.1
Cnidaria - medusa >5mm	9	8.0	5	< 0.1
Neocalanus cristatus C-5	6	8.0	3	< 0.1
Unidentified Calanoida C-3	3	15.1	3	< 0.1
Unidentified Calanoida C-2	2	15.1	2	< 0.1
Euphausiacea - calytopis 2	2	15.1	2	< 0.1
Eucalanus bungii - adult F	3	8.0	2	< 0.1
Metridia pacifica - adult M	1	15.1	1	< 0.1
Calanus marshallae - adult M	1	15.1	1	< 0.1
Thysanoessa spinifera A&J	1	8.0	1	< 0.1

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14960	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
223 80 - 100 133.3 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	102	512.0	3918	22.7
Neocalanus plumchrus C-5	43	512.0	1652	9.6
Other Copepoda - nauplius	41	512.0	1575	9.1
Pseudocalanus spp. - adult F	31	512.0	1191	6.9
Other Copepoda <2mm	25	512.0	960	5.6
Invertebrata - egg <5mm	19	512.0	730	4.2
Metriididae C-3	15	512.0	576	3.3
Metriididae C-1	14	512.0	538	3.1
?Pseudocalanus spp. C-3	14	512.0	538	3.1
Metriididae C-2	13	512.0	499	2.9
Pseudocalanus spp. C-5 M	37	170.7	474	2.7
Pseudocalanus spp. - adult M	12	512.0	461	2.7
Pseudocalanus spp. C-5 F	34	170.7	435	2.5
?Pseudocalanus spp. C-1	10	512.0	384	2.2
Calanus marshallae C-3	29	170.7	371	2.2
Cirripecta - nauplius <5mm	9	512.0	346	2.0
?Pseudocalanus spp. C-2	8	512.0	307	1.8
Pseudocalanus spp. C-4 F	23	170.7	295	1.7
Polychaeta <5mm	6	512.0	230	1.3
Metridia pacifica C-5 M	41	73.1	225	1.3
Pseudocalanus spp. C-4 M	17	170.7	218	1.3
Calanus marshallae C-4	14	170.7	179	1.0
Metridia pacifica - adult F	31	73.1	170	1.0
Calanus marshallae C-5	12	170.7	154	0.9
Chaetognatha 5-20mm	102	16.0	122	0.7
Euphausiacea - nauplius	3	512.0	115	0.7
Calanus marshallae C-2	7	170.7	90	0.5
Cirripecta - cypris <5mm	2	512.0	77	0.4
Thecosomata <5mm	2	512.0	77	0.4
Larvacea	2	512.0	77	0.4
Calanus marshallae C-1	5	170.7	64	0.4
Neocalanus plumchrus C-4	25	22.3	42	0.2
Neocalanus cristatus C-5	28	16.0	34	0.2
Calanus marshallae - adult F	2	170.7	26	0.1
Metridia pacifica C-5 F	4	73.1	22	0.1
Metridia pacifica C-4	13	22.3	22	0.1
Calanus marshallae - adult M	1	170.7	13	0.1
Chaetognatha >20mm	6	16.0	7	< 0.1
Neocalanus cristatus C-4	6	16.0	7	< 0.1
Euphausiacea - calyptopis 3	3	22.3	5	< 0.1
Euphausiacea - calyptopis 1	3	22.3	5	< 0.1
Eucalanus bungii C-5 M	2	16.0	2	< 0.1
Euphausiacea - calyptopis 2	1	22.3	2	< 0.1
Thysanoessa spinifera A&J	1	16.0	1	< 0.1
Eucalanus bungii C-5 F	1	16.0	1	< 0.1
			17235	100.

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DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
223 100 - 150 415.3 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	76	512.0	937	18.5
Other Copepoda <2mm	56	512.0	690	13.6
Pseudocalanus spp. - adult F	52	512.0	641	12.6
Metriididae C-1	31	512.0	382	7.5
Other Copepoda - nauplius	31	512.0	382	7.5
Metriididae C-2	29	512.0	358	7.0
Neocalanus plumchrus C-5	121	102.4	298	5.9
Invertebrata - egg <5mm	16	512.0	197	3.9
Metriididae C-3	15	512.0	185	3.6
Metridia pacifica C-4	63	102.4	155	3.1
Metridia pacifica - adult F	54	102.4	133	2.6
Pseudocalanus spp. - adult M	10	512.0	123	2.4
Metridia pacifica C-5 M	45	102.4	111	2.2
Pseudocalanus spp. C-5 F	27	102.4	67	1.3
Metridia pacifica C-5 F	20	102.4	49	1.0
Larvacea	4	512.0	49	1.0
Pseudocalanus spp. C-5 M	19	102.4	47	0.9
Cirripecta - cypris <5mm	3	512.0	37	0.7
Cirripecta - nauplius <5mm	3	512.0	37	0.7
Chaetognatha 5-20mm	69	16.0	27	0.5
Polychaeta <5mm	2	512.0	25	0.5
Calanus marshallae C-4	26	24.4	15	0.3
Pseudocalanus spp. C-4 F	6	102.4	15	0.3
Euphausiacea - nauplius	1	512.0	12	0.2
Natantia - larva	1	512.0	12	0.2
Hyperiididae <5mm	1	512.0	12	0.2
Pseudocalanus spp. C-4 M	4	102.4	10	0.2
Metridia pacifica - adult M	4	102.4	10	0.2
Calanus marshallae C-5	14	24.4	8	0.2
Neocalanus plumchrus C-4	3	102.4	7	0.1
Neocalanus cristatus C-5	19	16.0	7	0.1
Calanus marshallae - adult F	12	24.4	7	0.1
Calanus marshallae C-3	12	24.4	7	0.1
Calanus marshallae - adult M	10	24.4	6	0.1
Euphausiacea - calyptopis 1	7	24.4	4	0.1
Neocalanus cristatus C-5	7	16.0	3	0.1
Chaetognatha >20mm	3	16.0	1	< 0.1
Hyperiididae >5mm	3	16.0	1	< 0.1
Other Copepoda >5mm	3	16.0	1	< 0.1
Eucalanus bungii C-5 M	2	16.0	1	< 0.1
Acartia spp.	1	24.4	1	< 0.1
Eucalanus bungii C-3	1	24.4	1	< 0.1
Euphausiacea - calyptopis 3	1	24.4	1	< 0.1
Euphausiacea - calyptopis 2	1	24.4	1	< 0.1
Neocalanus cristatus C-3	1	24.4	1	< 0.1
Calanus pacificus C-5	1	24.4	1	< 0.1
Cnidaria - medusa >5mm	1	16.0	< 1	< 0.1

Eucalanus bungii - adult F	1	16.0	< 1	< 0.1
Thysanoessa inermis A&J	1	16.0	< 1	< 0.1
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		5077	100.	

STA. 125 55 57.1 N 156 23.2 W 15 May 86 18:03

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
223 150 - 175 166.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	57	256.0	876	16.8
Pseudocalanus spp. - adult F	38	256.0	584	11.2
Metriididae C-2	37	256.0	569	10.9
Neocalanus plumchrus C-5	31	256.0	476	9.1
Oithona spp.	28	256.0	430	8.3
Metriididae C-3	28	256.0	430	8.3
Metriididae C-1	27	256.0	415	8.0
Other Copepoda - nauplius	22	256.0	338	6.5
Metridia pacifica - adult F	44	85.3	225	4.3
Metridia pacifica C-4	34	85.3	174	3.3
Pseudocalanus spp. - adult M	7	256.0	108	2.1
Metridia pacifica C-5 F	17	85.3	87	1.7
Metridia pacifica - adult M	16	85.3	82	1.6
Invertebrata - egg <5mm	4	256.0	61	1.2
Metridia pacifica C-5 M	12	85.3	61	1.2
Polychaeta <5mm	3	256.0	46	0.9
Chaetognatha 5-20mm	78	8.0	37	0.7
Euphausiacea - nauplius	2	256.0	31	0.6
Pseudocalanus spp. C-5 F	36	13.5	29	0.6
Metridia spp. - adult F	4	85.3	20	0.4
Neocalanus cristatus C-4	32	8.0	15	0.3
Cirripedia - nauplius <5mm	1	256.0	15	0.3
Hyperiididae <5mm	1	256.0	15	0.3
Pseudocalanus spp. C-5 M	18	13.5	15	0.3
Calanus marshallae - adult M	18	13.5	15	0.3
Pseudocalanus spp. C-4 F	12	13.5	10	0.2
Calanus marshallae C-3	9	13.5	7	0.1
Neocalanus plumchrus C-4	8	13.5	6	0.1
Neocalanus cristatus C-5	9	8.0	4	0.1
Euphausiacea - calyptopis 1	5	13.5	4	0.1
Unidentified Calanoida C-2	5	13.5	4	0.1
Euphausiacea - calyptopis 3	3	13.5	2	< 0.1
Neocalanus cristatus C-3	3	13.5	2	< 0.1
Pseudocalanus spp. C-4 M	3	13.5	2	< 0.1
Calanus marshallae C-5	3	13.5	2	< 0.1
Calanus marshallae C-4	3	13.5	2	< 0.1
Hyperiididae >5mm	5	8.0	2	< 0.1
Eucalanus bungii - adult M	2	8.0	1	< 0.1
Eucalanus bungii C-5 F	2	8.0	1	< 0.1
Eucalanus bungii - adult F	2	8.0	1	< 0.1
Other Copepoda >5mm	2	8.0	1	< 0.1
Neocalanus cristatus C-2	1	13.5	1	< 0.1
Unidentified Calanoida C-3	1	13.5	1	< 0.1
Acartia spp.	1	13.5	1	< 0.1
Siphonophora >5mm	1	8.0	< 1	< 0.1
Thysanoessa spinifera A&J	1	8.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	8.0	< 1	< 0.1

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5214	100.

STA. 147 56 21.0 N 156 53.3 W 17 May 86 8:52

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
126 1 - 15 163.1 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	49	2048.0	6151	10.2
Pseudocalanus spp. - adult F	48	2048.0	6025	10.0
Pseudocalanus spp. C-5 M	38	2048.0	4770	7.9
?Pseudocalanus spp. C-3	35	2048.0	4394	7.3
Neocalanus plumchrus C-5	34	2048.0	4268	7.1
?Pseudocalanus spp. C-1	34	2048.0	4268	7.1
Pseudocalanus spp. C-4 M	33	2048.0	4142	6.8
Pseudocalanus spp. C-5 F	31	2048.0	3891	6.4
?Pseudocalanus spp. C-2	31	2048.0	3891	6.4
Other Copepoda - nauplius	29	2048.0	3640	6.0
Acartia spp.	27	2048.0	3389	5.6
Pseudocalanus spp. - adult M	20	2048.0	2511	4.1
Invertebrata - egg <5mm	19	2048.0	2385	3.9
Pseudocalanus spp. C-4 F	18	2048.0	2260	3.7
Cirripedia - nauplius <5mm	9	2048.0	1130	1.9
Metridia pacifica C-5 M	59	227.6	823	1.4
Metridia pacifica C-5 F	44	227.6	614	1.0
Metridia pacifica C-4	31	227.6	432	0.7
Metridia pacifica - adult F	27	227.6	377	0.6
Hyperiidea <5mm	2	2048.0	251	0.4
Larvacea	2	2048.0	251	0.4
Euphausiacea - nauplius	1	2048.0	126	0.2
Thecosomata <5mm	1	2048.0	126	0.2
Cirripedia - cypris <5mm	1	2048.0	126	0.2
Neocalanus plumchrus C-4	61	28.1	105	0.2
Chaetognatha 5-20mm	67	8.0	33	0.1
Calanus marshallae C-5	15	28.1	26	< 0.1
Calanus marshallae C-4	13	28.1	22	< 0.1
Calanus marshallae C-3	9	28.1	16	< 0.1
Neocalanus plumchrus C-3	8	28.1	14	< 0.1
Calanus marshallae C-2	7	28.1	12	< 0.1
Calanus marshallae - adult F	5	28.1	9	< 0.1
Euphausiacea - calyptopis 1	5	28.1	9	< 0.1
Neocalanus cristatus C-5	13	8.0	6	< 0.1
Calanus marshallae C-1	3	28.1	5	< 0.1
Chaetognatha >20mm	7	8.0	3	< 0.1
Cnidaria - medusa >5mm	6	8.0	3	< 0.1
Thysanoessa inermis A&J	6	8.0	3	< 0.1
Euphausiacea - calyptopis 2	1	28.1	2	< 0.1
Eucalanus bungii - adult F	1	8.0	< 1	< 0.1
			60508	100.

STA. 147 56 21.0 N 156 53.3 W 17 May 86 8:52

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
126 16 - 30 188.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	85	2048.0	9238	28.8
Euphausiacea - nauplius	44	2048.0	4782	14.9
Other Copepoda - nauplius	30	2048.0	3260	10.2
Cirripedia - nauplius <5mm	22	2048.0	2391	7.5
?Pseudocalanus spp. C-1	19	2048.0	2065	6.4
?Pseudocalanus spp. C-3	14	2048.0	1522	4.7
?Pseudocalanus spp. C-2	14	2048.0	1522	4.7
Pseudocalanus spp. - adult F	45	409.6	978	3.1
Neocalanus plumchrus C-5	40	409.6	869	2.7
Pseudocalanus spp. C-5 M	35	409.6	761	2.4
Pseudocalanus spp. - adult M	28	409.6	609	1.9
Pseudocalanus spp. C-4 F	26	409.6	565	1.8
Invertebrata - egg <5mm	5	2048.0	543	1.7
Pseudocalanus spp. C-4 M	25	409.6	543	1.7
Pseudocalanus spp. C-5 F	21	409.6	456	1.4
Larvacea	4	2048.0	435	1.4
Calanus marshallae C-1	14	409.6	304	0.9
Calanus marshallae C-2	10	409.6	217	0.7
Calanus marshallae C-3	7	409.6	152	0.5
Neocalanus plumchrus C-4	82	29.7	129	0.4
Cirripedia - cypris <5mm	1	2048.0	109	0.3
Other Copepoda <2mm	1	2048.0	109	0.3
Metridia pacifica C-4	55	29.7	87	0.3
Euphausiacea - calyptopis 1	49	29.7	77	0.2
Metridia pacifica C-5 M	36	29.7	57	0.2
Metridia pacifica C-5 F	34	29.7	54	0.2
Metridia pacifica - adult F	26	29.7	41	0.1
Chaetognatha 5-20mm	86	8.0	37	0.1
Calanus marshallae C-4	23	29.7	36	0.1
Acartia spp.	20	29.7	32	0.1
Calanus marshallae - adult F	11	29.7	17	0.1
Euphausiacea - calyptopis 2	11	29.7	17	0.1
Calanus marshallae C-5	6	29.7	9	< 0.1
Cnidaria - medusa >5mm	18	8.0	8	< 0.1
Thysanoessa inermis A&J	9	8.0	4	< 0.1
Metridia pacifica - adult M	2	29.7	3	< 0.1
Neocalanus cristatus C-5	3	8.0	1	< 0.1
Chaetognatha >20mm	2	8.0	1	< 0.1
Thysanoessa spinifera A&J	2	8.0	1	< 0.1
Eucalanus bungii - adult F	1	8.0	< 1	< 0.1
			32042	100.

STA. 147 56 21.0 N 156 53.3 W 17 May 86 8:52

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
126 31 - 45 112.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Euphausiacea - nauplius	82	1024.0	7458	22.3
Oithona spp.	74	1024.0	6730	20.1
Cirripedia - nauplius <5mm	60	1024.0	5457	16.3
Pseudocalanus spp. - adult F	20	1024.0	1819	5.4
Pseudocalanus spp. - adult M	19	1024.0	1728	5.2
?Pseudocalanus spp. C-1	14	1024.0	1273	3.8
Other Copepoda - nauplius	12	1024.0	1091	3.3
?Pseudocalanus spp. C-3	12	1024.0	1091	3.3
?Pseudocalanus spp. C-2	9	1024.0	819	2.4
Pseudocalanus spp. C-4 F	39	204.8	709	2.1
Pseudocalanus spp. C-5 F	37	204.8	673	2.0
Pseudocalanus spp. C-5 M	33	204.8	600	1.8
Pseudocalanus spp. C-4 M	33	204.8	600	1.8
Neocalanus plumchrus C-5	33	204.8	600	1.8
Metriididae C-3	6	1024.0	546	1.6
Hyperiididae <5mm	4	1024.0	364	1.1
Calanus marshallae C-1	13	204.8	236	0.7
Metridia pacifica C-4	82	27.6	201	0.6
Invertebrata <5mm	2	1024.0	182	0.5
Calanus marshallae C-2	10	204.8	182	0.5
Calanus marshallae C-3	8	204.8	146	0.4
Euphausiacea - calyptopis 1	57	27.6	140	0.4
Neocalanus plumchrus C-4	46	27.6	113	0.3
Gastropoda <5mm	1	1024.0	91	0.3
Cirripedia - cypris <5mm	1	1024.0	91	0.3
Metriididae C-1	1	1024.0	91	0.3
Larvacea	1	1024.0	91	0.3
Calanus marshallae C-4	27	27.6	66	0.2
Metridia pacifica C-5 M	17	27.6	42	0.1
Chaetognatha 5-20mm	109	4.0	39	0.1
Metridia pacifica C-5 F	15	27.6	37	0.1
Euphausiacea - furcilia	2	204.8	36	0.1
Calanus marshallae - adult F	13	27.6	32	0.1
Euphausiacea - calyptopis 2	12	27.6	29	0.1
Calanus marshallae C-5	9	27.6	22	0.1
Metridia pacifica - adult F	9	27.6	22	0.1
Neocalanus plumchrus C-3	1	204.8	18	0.1
Euphausiacea - calyptopis 3	4	27.6	10	< 0.1
Chaetognatha >20mm	15	4.0	5	< 0.1
Neocalanus cristatus C-5	11	4.0	4	< 0.1
Neocalanus cristatus C-4	8	4.0	3	< 0.1
Metridia pacifica - adult M	1	27.6	2	< 0.1
Thysanoessa inermis A&J	5	4.0	2	< 0.1
Cnidaria - medusa >5mm	4	4.0	1	< 0.1
Eucalanus bungii - adult F	3	4.0	1	< 0.1
Eucalanus bungii - adult M	2	4.0	1	< 0.1

33495

100.

STA. 147 56 21.0 N 156 53.3 W 17 May 86 8:52

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
126 45 - 59 65.2 153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	193	256.0	7576	26.7
Cirripedia - nauplius <5mm	95	256.0	3729	13.2
Pseudocalanus spp. - adult F	71	256.0	2787	9.8
Euphausiacea - nauplius	43	256.0	1688	6.0
Pseudocalanus spp. - adult M	43	256.0	1688	6.0
Other Copepoda - nauplius	35	256.0	1374	4.8
Metriididae C-2	25	256.0	981	3.5
Other Copepoda <2mm	21	256.0	824	2.9
Metriididae C-3	20	256.0	785	2.8
Pseudocalanus spp. C-5 F	20	256.0	785	2.8
Metriididae C-1	18	256.0	707	2.5
Pseudocalanus spp. C-4 F	17	256.0	667	2.4
?Pseudocalanus spp. C-3	15	256.0	589	2.1
Pseudocalanus spp. C-5 M	14	256.0	550	1.9
Pseudocalanus spp. C-4 M	14	256.0	550	1.9
?Pseudocalanus spp. C-1	13	256.0	510	1.8
Neocalanus plumchrus C-5	96	28.4	418	1.5
?Pseudocalanus spp. C-2	10	256.0	393	1.4
Polychaeta <5mm	9	256.0	353	1.2
Metridia pacifica C-4	58	28.4	253	0.9
Invertebrata - egg <5mm	4	256.0	157	0.6
Neocalanus plumchrus C-4	32	28.4	139	0.5
Calanus marshallae C-3	31	28.4	135	0.5
Cirripedia - cypris <5mm	3	256.0	118	0.4
Metridia pacifica - adult M	20	28.4	87	0.3
Calanus marshallae C-2	15	28.4	65	0.2
Calanus marshallae C-4	39	10.2	61	0.2
Metridia pacifica C-5 M	11	28.4	48	0.2
Gastropoda <5mm	1	256.0	39	0.1
Chaetognatha 5-20mm	64	4.0	39	0.1
Natantia - larva	1	256.0	39	0.1
Metridia pacifica C-5 F	8	28.4	35	0.1
Metridia pacifica - adult F	8	28.4	35	0.1
Calanus marshallae C-5	21	10.2	33	0.1
Calanus marshallae C-1	5	28.4	22	0.1
Calanus marshallae - adult F	12	10.2	19	0.1
Neocalanus plumchrus C-3	4	28.4	17	0.1
Neocalanus cristatus C-4	20	4.0	12	< 0.1
Neocalanus plumchrus C-2	2	28.4	9	< 0.1
Chaetognatha >20mm	8	4.0	5	< 0.1
Unidentified Calanoida C-3	1	28.4	4	< 0.1
Unidentified Calanoida C-2	1	28.4	4	< 0.1
Euphausiacea - calyptopis 1	2	10.2	3	< 0.1
Calanus marshallae - adult M	2	10.2	3	< 0.1
Neocalanus cristatus C-5	3	4.0	2	< 0.1
Thysanoessa spinifera A&J	2	4.0	1	< 0.1
Eucalanus bungii C-5 F	1	4.0	1	< 0.1

Thysanoessa inermis A&J

1	4.0	1	< 0.1
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	28339		100.

STA. 147 56 21.0 N 156 53.3 W 17 May 86 8:52

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
126 60 - 80 156.7 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	123	512.0	4018	27.8
Oithona spp.	79	512.0	2581	17.9
Pseudocalanus spp. - adult F	51	512.0	1666	11.5
Pseudocalanus spp. - adult M	36	512.0	1176	8.1
Metriididae C-2	19	512.0	621	4.3
Metriididae C-3	19	512.0	621	4.3
Other Copepoda - nauplius	16	512.0	523	3.6
Pseudocalanus spp. C-5 F	14	512.0	457	3.2
Metriididae C-1	14	512.0	457	3.2
Pseudocalanus spp. C-5 M	12	512.0	392	2.7
Metridia pacifica - adult M	39	102.4	255	1.8
Polychaeta <5mm	6	512.0	196	1.4
Pseudocalanus spp. C-4 F	6	512.0	196	1.4
Neocalanus plumchrus C-5	89	24.4	139	1.0
Metridia pacifica C-4	21	102.4	137	0.9
Invertebrata - egg <5mm	4	512.0	131	0.9
Pseudocalanus spp. C-4 M	4	512.0	131	0.9
Cirripedia - cypris <5mm	4	512.0	131	0.9
Natantia - larva	3	512.0	98	0.7
?Pseudocalanus spp. C-3	3	512.0	98	0.7
Metridia pacifica C-5 F	11	102.4	72	0.5
Cirripedia - nauplius <5mm	2	512.0	65	0.5
Metridia pacifica C-5 M	9	102.4	59	0.4
Calanus marshallae C-4	34	24.4	53	0.4
Calanus marshallae C-3	27	24.4	42	0.3
Neocalanus plumchrus C-4	19	24.4	30	0.2
Metridia pacifica - adult F	4	102.4	26	0.2
Calanus marshallae C-5	16	24.4	25	0.2
Calanus marshallae - adult F	10	24.4	16	0.1
Chaetognatha 5-20mm	52	4.0	13	0.1
Neocalanus cristatus C-4	49	4.0	13	0.1
Calanus marshallae - adult M	5	24.4	8	0.1
Unidentified Calanoida C-3	3	24.4	5	< 0.1
Euphausiacea - calyptopis 1	1	24.4	2	< 0.1
Neocalanus cristatus C-5	6	4.0	2	< 0.1
Chaetognatha >20mm	5	4.0	1	< 0.1
Thysanoessa spinifera A&J	3	4.0	1	< 0.1
Eucalanus bungii - adult F	2	4.0	1	< 0.1
Thysanoessa inermis A&J	2	4.0	1	< 0.1
Mysidacea >5mm	2	4.0	1	< 0.1
Thysanoessa longipes A&J	1	4.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	4.0	< 1	< 0.1
			14455	100.

STA. 147 56 21.0 N 156 53.3 W 17 May 86 8:52

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
126 80 - 99 164.3 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	219	512.0	6825	45.8
Oithona spp.	75	512.0	2337	15.7
Pseudocalanus spp. - adult F	40	512.0	1247	8.4
Pseudocalanus spp. - adult M	35	512.0	1091	7.3
Other Copepoda - nauplius	19	512.0	592	4.0
Metriididae C-2	15	512.0	467	3.1
Pseudocalanus spp. C-5 M	11	512.0	343	2.3
Metriididae C-3	11	512.0	343	2.3
Pseudocalanus spp. C-5 F	9	512.0	280	1.9
Pseudocalanus spp. C-4 F	7	512.0	218	1.5
Metridia pacifica - adult M	51	56.9	177	1.2
Invertebrata - egg <5mm	5	512.0	156	1.0
Neocalanus plumchrus C-5	42	56.9	145	1.0
Metridia pacifica C-5 M	39	56.9	135	0.9
Metridia pacifica C-4	20	56.9	69	0.5
Metridia pacifica C-5 F	20	56.9	69	0.5
Cirripedia - nauplius <5mm	2	512.0	62	0.4
Metriididae C-1	2	512.0	62	0.4
Metridia pacifica - adult F	9	56.9	31	0.2
Polychaeta <5mm	1	512.0	31	0.2
Hyperiidea <5mm	1	512.0	31	0.2
?Pseudocalanus spp. C-3	1	512.0	31	0.2
?Pseudocalanus spp. C-2	1	512.0	31	0.2
Natantia - larva	1	512.0	31	0.2
Pseudocalanus spp. C-4 M	1	512.0	31	0.2
Neocalanus plumchrus C-4	53	7.0	23	0.2
Chaetognatha 5-20mm	92	2.0	11	0.1
Calanus marshallae C-4	26	7.0	11	0.1
Calanus marshallae C-5	14	7.0	6	< 0.1
Calanus marshallae C-3	13	7.0	6	< 0.1
Calanus marshallae - adult M	10	7.0	4	< 0.1
Calanus marshallae - adult F	7	7.0	3	< 0.1
Neocalanus cristatus C-4	24	2.0	3	< 0.1
Neocalanus plumchrus C-3	4	7.0	2	< 0.1
Acartia spp.	3	7.0	1	< 0.1
Gammaridea >5mm	8	2.0	1	< 0.1
Neocalanus cristatus C-5	7	2.0	1	< 0.1
Chaetognatha >20mm	4	2.0	< 1	< 0.1
Neocalanus cristatus C-3	1	7.0	< 1	< 0.1
Euphausiacea - furcilia	1	7.0	< 1	< 0.1
Hyperiidea >5mm	3	2.0	< 1	< 0.1
Thysanoessa spinifera A&J	2	2.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	2.0	< 1	< 0.1
			14910	100.

STA. 157 56 21.1 N 156 53.0 W 18 May 86 3:31

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
123 2 - 15 154.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Pseudocalanus spp. - adult F	67	2048.0	8884	15.6
Pseudocalanus spp. C-5 M	42	2048.0	5569	9.8
Cirripedia - nauplius <5mm	40	2048.0	5304	9.3
?Pseudocalanus spp. C-3	36	2048.0	4774	8.4
Other Copepoda - nauplius	30	2048.0	3978	7.0
Oithona spp.	29	2048.0	3845	6.8
Pseudocalanus spp. C-4 M	28	2048.0	3713	6.5
?Pseudocalanus spp. C-2	24	2048.0	3182	5.6
Acartia spp.	23	2048.0	3050	5.4
Pseudocalanus spp. C-5 F	21	2048.0	2785	4.9
Pseudocalanus spp. - adult M	21	2048.0	2785	4.9
Neocalanus plumchrus C-5	153	227.6	2255	4.0
?Pseudocalanus spp. C-1	15	2048.0	1989	3.5
Pseudocalanus spp. C-4 F	14	2048.0	1856	3.3
Cirripedia - cypris <5mm	7	2048.0	928	1.6
Larvacea	4	2048.0	530	0.9
Invertebrata - egg <5mm	4	2048.0	530	0.9
Calanus marshallae C-4	132	28.1	240	0.4
Calanus marshallae C-3	80	28.1	146	0.3
Echinodermata <5mm	1	2048.0	133	0.2
Calanus marshallae C-5	64	28.1	116	0.2
Chaetognatha 5-20mm	158	8.0	82	0.1
Neocalanus plumchrus C-4	37	28.1	67	0.1
Calanus marshallae C-2	34	28.1	62	0.1
Euphausiacea - calyptopis 1	19	28.1	35	0.1
Calanus marshallae C-1	8	28.1	15	< 0.1
Cnidaria - medusa >5mm	16	8.0	8	< 0.1
Calanus marshallae - adult F	3	28.1	5	< 0.1
Euphausiacea - calyptopis 2	2	28.1	4	< 0.1
Neocalanus plumchrus C-3	2	28.1	4	< 0.1
Neocalanus plumchrus C-2	1	28.1	2	< 0.1
Neocalanus plumchrus C-1	1	28.1	2	< 0.1
Chaetognatha >20mm	3	8.0	2	< 0.1
Eucalanus bungii - adult F	1	8.0	1	< 0.1
			56879	100.

STA. 157 56 21.1 N 156 53.0 W 18 May 86 3:31

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
123 15 - 30 216.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	166	1024.0	7850	30.6
Pseudocalanus spp. - adult F	45	1024.0	2128	8.3
Euphausiacea - nauplius	43	1024.0	2033	7.9
?Pseudocalanus spp. C-2	38	1024.0	1797	7.0
?Pseudocalanus spp. C-3	37	1024.0	1750	6.8
?Pseudocalanus spp. C-1	29	1024.0	1371	5.3
Neocalanus plumchrus C-5	51	512.0	1206	4.7
Other Copepoda - nauplius	22	1024.0	1040	4.1
Pseudocalanus spp. C-5 M	21	1024.0	993	3.9
Pseudocalanus spp. C-5 F	18	1024.0	851	3.3
Pseudocalanus spp. C-4 M	15	1024.0	709	2.8
Pseudocalanus spp. C-4 F	14	1024.0	662	2.6
Pseudocalanus spp. - adult M	14	1024.0	662	2.6
Cirripedia - nauplius <5mm	10	1024.0	473	1.8
Euphausiacea - calyptopis 1	17	512.0	402	1.6
Euphausiacea - calyptopis 2	16	512.0	378	1.5
Cirripedia - cypris <5mm	6	1024.0	284	1.1
Acartia spp.	56	73.1	189	0.7
Calanus marshallae C-3	18	170.7	142	0.6
Polychaeta <5mm	2	1024.0	95	0.4
Calanus marshallae C-2	9	170.7	71	0.3
Calanus marshallae C-4	20	73.1	68	0.3
Calanus marshallae C-1	7	170.7	55	0.2
Neocalanus plumchrus C-4	34	34.1	54	0.2
Chaetognatha 5-20mm	130	8.0	48	0.2
Echinodermata - larva <5mm	1	1024.0	47	0.2
Anomura - larva	1	1024.0	47	0.2
Other Copepoda <2mm	1	1024.0	47	0.2
Hyperiidia <5mm	1	1024.0	47	0.2
Larvacea	1	1024.0	47	0.2
Calanus marshallae C-5	11	73.1	37	0.1
Unidentified Calanoida C-1	3	170.7	24	0.1
Unidentified Calanoida C-2	2	170.7	16	0.1
Unidentified Calanoida C-3	2	170.7	16	0.1
Neocalanus plumchrus C-2	1	170.7	8	< 0.1
Neocalanus plumchrus C-1	1	170.7	8	< 0.1
Calanus marshallae - adult F	2	73.1	7	< 0.1
Cnidaria - medusa >5mm	14	8.0	5	< 0.1
Euphausiacea - furcilia	2	34.1	3	< 0.1
Metridia pacifica - adult M	1	34.1	2	< 0.1
Eucalanus bungii - adult F	2	8.0	1	< 0.1
Chaetognatha >20mm	1	8.0	< 1	< 0.1
Neocalanus cristatus C-5	1	8.0	< 1	< 0.1
			25673	100.

STA. 157 56 21.1 N 156 53.0 W 18 May 86 3:31

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
123 30 - 45 176.8 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	238	512.0	6893	36.1
Euphausiacea - nauplius	89	512.0	2578	13.5
Pseudocalanus spp. - adult F	57	512.0	1651	8.7
Neocalanus plumchrus C-5	44	512.0	1274	6.7
Other Copepoda - nauplius	34	512.0	985	5.2
?Pseudocalanus spp. C-2	26	512.0	753	3.9
Pseudocalanus spp. - adult M	24	512.0	695	3.6
?Pseudocalanus spp. C-1	21	512.0	608	3.2
Pseudocalanus spp. C-5 F	18	512.0	521	2.7
?Pseudocalanus spp. C-3	18	512.0	521	2.7
Invertebrata - egg <5mm	11	512.0	319	1.7
Pseudocalanus spp. C-5 M	10	512.0	290	1.5
Pseudocalanus spp. C-4 M	19	256.0	275	1.4
Pseudocalanus spp. C-4 F	16	256.0	232	1.2
Cirripedia - nauplius <5mm	8	512.0	232	1.2
Calanus marshallae C-1	13	256.0	188	1.0
Calanus marshallae C-3	10	256.0	145	0.8
Larvacea	4	512.0	116	0.6
Calanus marshallae C-2	7	256.0	101	0.5
Metriididae C-2	3	512.0	87	0.5
Cirripedia - cypris <5mm	3	512.0	87	0.5
Calanus marshallae C-4	27	51.2	78	0.4
Metriididae C-3	2	512.0	58	0.3
Other Copepoda <2mm	2	512.0	58	0.3
Metriididae C-1	2	512.0	58	0.3
Euphausiacea - calyptopis 1	43	19.7	48	0.3
Chaetognatha 5-20mm	76	8.0	34	0.2
Neocalanus plumchrus C-4	65	8.8	32	0.2
Gastropoda <5mm	1	512.0	29	0.2
Natantia - larva	1	512.0	29	0.2
Thecosomata <5mm	1	512.0	29	0.2
Calanus marshallae C-5	6	51.2	17	0.1
Acartia spp.	1	256.0	14	0.1
Unidentified Calanoida C-2	1	256.0	14	0.1
Calanus marshallae - adult F	4	51.2	12	0.1
Cnidaria - medusa >5mm	15	8.0	7	< 0.1
Neocalanus cristatus C-5	10	8.0	5	< 0.1
Euphausiacea - calyptopis 2	4	19.7	4	< 0.1
Eucalanus bungii - adult F	2	8.0	1	< 0.1
Chaetognatha >20mm	2	8.0	1	< 0.1
Neocalanus cristatus C-4	1	8.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	8.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	8.0	< 1	< 0.1
			19082	100.

STA. 157 56 21.1 N 156 53.0 W 18 May 86 3:31

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
123 45 - 59 102.7 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	141	512.0	7027	39.6
Neocalanus plumchrus C-5	31	512.0	1545	8.7
Other Copepoda - nauplius	30	512.0	1495	8.4
Pseudocalanus spp. - adult F	24	512.0	1196	6.7
Euphausiacea - nauplius	23	512.0	1146	6.5
Pseudocalanus spp. - adult M	21	512.0	1047	5.9
Other Copepoda <2mm	13	512.0	648	3.7
Pseudocalanus spp. C-5 F	25	170.7	415	2.3
?Pseudocalanus spp. C-3	8	512.0	399	2.2
Cirripedia - nauplius <5mm	7	512.0	349	2.0
Metriididae C-1	7	512.0	349	2.0
?Pseudocalanus spp. C-2	6	512.0	299	1.7
?Pseudocalanus spp. C-1	6	512.0	299	1.7
Pseudocalanus spp. C-5 M	15	170.7	249	1.4
Pseudocalanus spp. C-4 M	26	73.1	185	1.0
Larvacea	3	512.0	150	0.8
Pseudocalanus spp. C-4 F	20	73.1	142	0.8
Calanus marshallae C-1	15	73.1	107	0.6
Polychaeta <5mm	2	512.0	100	0.6
Metriididae C-3	2	512.0	100	0.6
Calanus marshallae C-3	13	73.1	93	0.5
Calanus marshallae C-2	10	73.1	71	0.4
Calanus marshallae C-4	32	22.3	69	0.4
Natantia - larva	1	512.0	50	0.3
Metriididae C-2	1	512.0	50	0.3
Neocalanus plumchrus C-4	43	9.3	39	0.2
Metridia pacifica C-4	32	9.3	29	0.2
Unidentified Calanoida C-2	3	73.1	21	0.1
Calanus marshallae C-5	9	22.3	20	0.1
Chaetognatha 5-20mm	49	2.0	10	0.1
Calanus marshallae - adult F	4	22.3	9	< 0.1
Neocalanus plumchrus C-3	1	73.1	7	< 0.1
Acartia spp.	6	9.3	5	< 0.1
Euphausiacea - calyptopis 1	3	9.3	3	< 0.1
Metridia pacifica - adult F	2	9.3	2	< 0.1
Neocalanus cristatus C-5	8	2.0	2	< 0.1
Chaetognatha >20mm	7	2.0	1	< 0.1
Euphausiacea - calyptopis 2	1	9.3	1	< 0.1
Eucalanus bungii C-5 F	2	2.0	< 1	< 0.1
Eucalanus bungii - adult F	2	2.0	< 1	< 0.1
Neocalanus cristatus C-4	1	2.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	2.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	2.0	< 1	< 0.1
Eucalanus bungii - adult M	1	2.0	< 1	< 0.1
			17729	100.

STA. 157 56 21.1 N 156 53.0 W 18 May 86 3:31

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
123 60 - 79 98.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	87	256.0	2252	26.8
Neocalanus plumchrus C-5	85	256.0	2200	26.2
Pseudocalanus spp. - adult M	28	256.0	725	8.6
Pseudocalanus spp. - adult F	18	256.0	466	5.6
Metriididae C-3	14	256.0	362	4.3
Other Copepoda <2mm	13	256.0	336	4.0
Metriididae C-2	10	256.0	259	3.1
Other Copepoda - nauplius	10	256.0	259	3.1
Pseudocalanus spp. C-5 F	43	51.2	223	2.7
Metriididae C-1	7	256.0	181	2.2
Pseudocalanus spp. C-4 F	24	51.2	124	1.5
Euphausiacea - nauplius	4	256.0	104	1.2
Pseudocalanus spp. C-5 M	19	51.2	98	1.2
Metridia pacifica C-4	41	19.7	82	1.0
Larvacea	2	256.0	52	0.6
?Pseudocalanus spp. C-3	2	256.0	52	0.6
?Pseudocalanus spp. C-2	2	256.0	52	0.6
Cirripedia - cypris <5mm	2	256.0	52	0.6
?Pseudocalanus spp. C-1	2	256.0	52	0.6
Pseudocalanus spp. C-4 M	9	51.2	47	0.6
Calanus marshallae C-3	21	19.7	42	0.5
Calanus marshallae C-4	19	19.7	38	0.5
Chaetognatha 5-20mm	43	8.0	35	0.4
Neocalanus plumchrus C-4	60	5.7	35	0.4
Calanus marshallae C-1	14	19.7	28	0.3
Cirripedia - nauplius <5mm	1	256.0	26	0.3
Polychaeta <5mm	1	256.0	26	0.3
Gammaridea <5mm	1	256.0	26	0.3
Foraminifera <5mm	1	256.0	26	0.3
Chaetognatha <5mm	1	256.0	26	0.3
Calanus marshallae C-2	12	19.7	24	0.3
Neocalanus cristatus C-5	26	8.0	21	0.3
Neocalanus cristatus C-4	15	8.0	12	0.1
Calanus marshallae - adult F	6	19.7	12	0.1
Chaetognatha >20mm	14	8.0	11	0.1
Calanus marshallae C-5	5	19.7	10	0.1
Acartia spp.	2	19.7	4	< 0.1
Unidentified Calanoida C-3	2	19.7	4	< 0.1
Metridia pacifica C-5 M	2	19.7	4	< 0.1
Metridia pacifica - adult F	1	19.7	2	< 0.1
Neocalanus plumchrus C-3	1	19.7	2	< 0.1
Thysanoessa inermis A&J	2	8.0	2	< 0.1
Cnidaria - medusa >5mm	1	8.0	1	< 0.1
			8391	100.

STA. 157 56 21.1 N 156 53.0 W 18 May 86 3:31

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
123 80 - 100 97.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	120	128.0	1577	23.6
Oithona spp.	88	128.0	1157	17.3
Neocalanus plumchrus C-5	73	128.0	960	14.4
Pseudocalanus spp. - adult M	51	128.0	670	10.0
Pseudocalanus spp. - adult F	31	128.0	408	6.1
Metriididae C-2	19	128.0	250	3.7
Metridia pacifica C-4	55	42.7	241	3.6
Metridia pacifica - adult M	48	42.7	210	3.2
Other Copepoda - nauplius	12	128.0	158	2.4
Metriididae C-3	12	128.0	158	2.4
Metridia pacifica C-5 M	30	42.7	132	2.0
Cirripedia - cypris <5mm	9	128.0	118	1.8
Metridia pacifica C-5 F	22	42.7	96	1.4
Euphausiacea - nauplius	7	128.0	92	1.4
Pseudocalanus spp. C-5 F	67	11.6	80	1.2
Metriididae C-1	5	128.0	66	1.0
Pseudocalanus spp. C-5 M	49	11.6	58	0.9
Pseudocalanus spp. C-4 F	26	11.6	31	0.5
Metridia pacifica - adult F	7	42.7	31	0.5
Polychaeta <5mm	2	128.0	26	0.4
Neocalanus plumchrus C-4	49	4.7	24	0.4
Chaetognatha 5-20mm	46	4.0	19	0.3
Pseudocalanus spp. C-4 M	12	11.6	14	0.2
Calanus marshallae - adult F	12	11.6	14	0.2
Invertebrata - egg <5mm	1	128.0	13	0.2
Invertebrata <5mm	1	128.0	13	0.2
Calanus marshallae C-4	10	11.6	12	0.2
Calanus marshallae C-5	7	11.6	8	0.1
Neocalanus cristatus C-5	19	4.0	8	0.1
Neocalanus cristatus C-4	16	4.0	7	0.1
Calanus marshallae - adult M	5	11.6	6	0.1
Calanus marshallae C-3	4	11.6	5	0.1
Chaetognatha >20mm	11	4.0	5	0.1
Calanus marshallae C-2	2	11.6	2	< 0.1
Acartia spp.	2	11.6	2	< 0.1
Neocalanus plumchrus C-3	2	11.6	2	< 0.1
Unidentified Calanoida C-1	1	11.6	1	< 0.1
Calanus marshallae C-1	1	11.6	1	< 0.1
Gymnosomata >5mm	1	4.0	< 1	< 0.1
Hyperiidia >5mm	1	4.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	4.0	< 1	< 0.1
Eucalanus bungii - adult M	1	4.0	< 1	< 0.1
Thysanoessa spinifera A&J	1	4.0	< 1	< 0.1

				6678 100.

STA. 166 57 40.6 N 155 09.8 W 19 May 86 1:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
291 1 - 15 85.0 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Cirripedia - cypris <5mm	75	4096.0	36154	22.4
Other Copepoda - nauplius	51	4096.0	24585	15.2
Oithona spp.	43	4096.0	20728	12.8
Cirripedia - nauplius <5mm	27	4096.0	13015	8.0
Larvacea	21	4096.0	10123	6.3
Pseudocalanus spp. - adult F	31	2048.0	7472	4.6
Pseudocalanus spp. C-5 M	27	2048.0	6508	4.0
Euphausiacea - calyptopis 2	21	2048.0	5062	3.1
Euphausiacea - calyptopis 1	20	2048.0	4821	3.0
Pseudocalanus spp. C-4 M	18	2048.0	4338	2.7
Pseudocalanus spp. C-4 F	17	2048.0	4097	2.5
Acartia spp.	73	409.6	3519	2.2
Pseudocalanus spp. - adult M	14	2048.0	3374	2.1
Pseudocalanus spp. C-5 F	14	2048.0	3374	2.1
Echinodermata - larva <5mm	7	4096.0	3374	2.1
Euphausiacea - furcilia	53	409.6	2555	1.6
Euphausiacea - calyptopis 3	7	2048.0	1687	1.0
Polychaeta <5mm	3	4096.0	1446	0.9
Calanus marshallae C-4	24	409.6	1157	0.7
Neocalanus plumchrus C-5	60	157.5	1112	0.7
Euphausiacea - nauplius	2	4096.0	964	0.6
Calanus marshallae C-3	45	157.5	834	0.5
Gastropoda <5mm	1	4096.0	482	0.3
Calanus marshallae C-5	9	409.6	434	0.3
Calanus marshallae C-2	16	157.5	297	0.2
Neocalanus plumchrus C-4	30	45.5	161	0.1
Calanus marshallae C-1	4	157.5	74	< 0.1
Chaetognatha 5-20mm	29	2.0	7	< 0.1
Cnidaria - medusa >5mm	23	2.0	5	< 0.1
			161760	100.

STA. 166 57 40.6 N 155 09.8 W 19 May 86 1:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
291 16 - 32 117.6 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	100	4096.0	34833	24.5
Cirripedia - cypris <5mm	75	4096.0	26125	18.4
Cirripedia - nauplius <5mm	34	4096.0	11843	8.3
?Pseudocalanus spp. C-1	20	4096.0	6967	4.9
Euphausiacea - calyptopis 2	18	4096.0	6270	4.4
?Pseudocalanus spp. C-3	14	4096.0	4877	3.4
Polychaeta <5mm	14	4096.0	4877	3.4
Larvacea	12	4096.0	4180	2.9
Euphausiacea - nauplius	11	4096.0	3832	2.7
?Pseudocalanus spp. C-2	11	4096.0	3832	2.7
Calanus marshallae C-3	52	819.2	3623	2.5
Pseudocalanus spp. C-4 M	43	819.2	2996	2.1
Euphausiacea - calyptopis 1	8	4096.0	2787	2.0
Euphausiacea - calyptopis 3	8	4096.0	2787	2.0
Pseudocalanus spp. C-5 M	39	819.2	2717	1.9
Other Copepoda - nauplius	7	4096.0	2438	1.7
Echinodermata - larva <5mm	7	4096.0	2438	1.7
Pseudocalanus spp. C-5 F	31	819.2	2160	1.5
Calanus marshallae C-4	29	819.2	2020	1.4
Pseudocalanus spp. C-4 F	27	819.2	1881	1.3
Calanus marshallae C-2	27	819.2	1881	1.3
Euphausiacea - furcilia	49	315.1	1313	0.9
Pseudocalanus spp. - adult F	18	819.2	1254	0.9
Calanus marshallae C-1	16	819.2	1115	0.8
Pseudocalanus spp. - adult M	13	819.2	906	0.6
Acartia spp.	36	141.2	432	0.3
Other Copepoda 2-5mm	1	4096.0	348	0.2
Gastropoda <5mm	1	4096.0	348	0.2
Cnidaria - medusa <5mm	1	4096.0	348	0.2
Neocalanus plumchrus C-5	27	141.2	324	0.2
Calanus marshallae C-5	4	819.2	279	0.2
Neocalanus plumchrus C-4	62	7.6	40	< 0.1
Chaetognatha 5-20mm	89	2.0	15	< 0.1
Eucalanus bungii C-2	17	7.6	11	< 0.1
Cnidaria - medusa >5mm	61	2.0	10	< 0.1
Metridia pacifica - adult F	28	2.6	6	< 0.1
Metridia pacifica C-5 M	28	2.6	6	< 0.1
Metridia pacifica C-5 F	18	2.6	4	< 0.1
Eucalanus bungii C-4 F	5	7.6	3	< 0.1
Eucalanus bungii C-1	4	7.6	3	< 0.1
Eucalanus bungii C-3	4	7.6	3	< 0.1
Metridia pacifica C-4	9	2.6	2	< 0.1
Eucalanus bungii C-4 M	1	7.6	1	< 0.1
Eucalanus bungii C-5 F	1	2.0	< 1	< 0.1
			142132	100.

STA. 166 57 40.6 N 155 09.8 W 19 May 86 1:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
291 32 - 44 59.4 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	65	512.0	5602	14.4
Other Copepoda - nauplius	55	512.0	4740	12.2
Cirripedia - cypris <5mm	49	512.0	4223	10.9
?Pseudocalanus spp. C-1	48	512.0	4137	10.7
?Pseudocalanus spp. C-2	42	512.0	3620	9.3
Calanus marshallae C-2	20	512.0	1724	4.4
Polychaeta <5mm	18	512.0	1551	4.0
?Pseudocalanus spp. C-3	18	512.0	1551	4.0
Pseudocalanus spp. C-4 F	23	256.0	991	2.6
Calanus marshallae C-1	11	512.0	948	2.4
Pseudocalanus spp. C-4 M	21	256.0	905	2.3
Pseudocalanus spp. - adult F	21	256.0	905	2.3
Pseudocalanus spp. C-5 M	20	256.0	862	2.2
Cirripedia - nauplius <5mm	10	512.0	862	2.2
Calanus marshallae C-3	9	512.0	776	2.0
Pseudocalanus spp. C-5 F	17	256.0	733	1.9
Pseudocalanus spp. - adult M	14	256.0	603	1.6
Larvacea	7	512.0	603	1.6
Calanus marshallae C-4	54	64.0	582	1.5
Euphausiacea - calyptopis 1	25	128.0	539	1.4
Euphausiacea - nauplius	6	512.0	517	1.3
Euphausiacea - calyptopis 2	20	128.0	431	1.1
Echinodermata - larva <5mm	4	512.0	345	0.9
Cnidaria - medusa <5mm	3	512.0	259	0.7
Gastropoda <5mm	2	512.0	172	0.4
Euphausiacea - calyptopis 3	6	128.0	129	0.3
Other Copepoda <2mm	1	512.0	86	0.2
Metriididae C-3	1	512.0	86	0.2
Metridia pacifica C-5 M	44	9.1	67	0.2
Acartia spp.	37	9.1	57	0.1
Neocalanus plumchrus C-5	36	9.1	55	0.1
Metridia pacifica C-4	75	2.8	35	0.1
Euphausiacea - furcilia	43	2.8	20	0.1
Metridia pacifica - adult F	30	2.8	14	< 0.1
Calanus marshallae C-5	1	64.0	11	< 0.1
Metridia pacifica C-5 F	7	9.1	11	< 0.1
Cnidaria - medusa >5mm	27	2.0	9	< 0.1
Neocalanus plumchrus C-4	18	2.8	8	< 0.1
Eucalanus bungii C-4 F	16	2.8	8	< 0.1
Chaetognatha 5-20mm	21	2.0	7	< 0.1
Eucalanus bungii C-2	14	2.8	7	< 0.1
Eucalanus bungii C-1	5	2.8	2	< 0.1
Metridia pacifica - adult M	1	2.8	< 1	< 0.1
Calanus pacificus - adult F	1	2.8	< 1	< 0.1
Eucalanus bungii - adult F	1	2.0	< 1	< 0.1
			38793	100.

STA. 166 57 40.6 N 155 09.8 W 19 May 86 1:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
291 44 - 60 90.1 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda - nauplius	128	512.0	7276	31.6
Oithona spp.	94	512.0	5343	23.2
?Pseudocalanus spp. C-1	74	512.0	4207	18.3
?Pseudocalanus spp. C-2	20	512.0	1137	4.9
Pseudocalanus spp. - adult F	19	256.0	540	2.3
Larvacea	7	512.0	398	1.7
Pseudocalanus spp. C-4 M	25	128.0	355	1.5
Cirripedia - cypris <5mm	6	512.0	341	1.5
Pseudocalanus spp. - adult M	12	256.0	341	1.5
Cirripedia - nauplius <5mm	6	512.0	341	1.5
Euphausiacea - nauplius	5	512.0	284	1.2
Calanus marshallae C-2	18	128.0	256	1.1
Pseudocalanus spp. C-5 M	49	42.7	232	1.0
Pseudocalanus spp. C-4 F	16	128.0	227	1.0
Calanus marshallae C-3	15	128.0	213	0.9
Calanus marshallae C-4	39	42.7	185	0.8
?Pseudocalanus spp. C-3	3	512.0	171	0.7
Gastropoda <5mm	3	512.0	171	0.7
Polychaeta <5mm	3	512.0	171	0.7
Pseudocalanus spp. C-5 F	34	42.7	161	0.7
Metridia pacifica C-4	69	18.3	140	0.6
Other Copepoda <2mm	2	512.0	114	0.5
Metridia pacifica C-5 M	22	42.7	104	0.5
Calanus marshallae C-1	7	128.0	99	0.4
Metridia pacifica C-5 F	16	42.7	76	0.3
Calanus marshallae C-5	9	42.7	43	0.2
Neocalanus plumchrus C-5	38	8.5	36	0.2
Metridia pacifica - adult F	56	2.7	17	0.1
Acartia spp.	29	2.7	9	< 0.1
Neocalanus plumchrus C-4	22	2.7	7	< 0.1
Calanus marshallae - adult F	1	42.7	5	< 0.1
Cnidaria - medusa >5mm	17	2.0	4	< 0.1
Chaetognatha 5-20mm	17	2.0	4	< 0.1
Eucalanus bungii C-1	8	2.7	2	< 0.1
Eucalanus bungii C-3	7	2.7	2	< 0.1
Euphausiacea - furcilia	7	2.7	2	< 0.1
Eucalanus bungii C-2	7	2.7	2	< 0.1
Eucalanus bungii C-4 M	2	2.7	1	< 0.1
Eucalanus bungii C-4 F	1	2.7	< 1	< 0.1
Metridia pacifica - adult M	1	2.7	< 1	< 0.1
Eucalanus bungii - adult F	1	2.0	< 1	< 0.1
Neocalanus cristatus C-4	1	2.0	< 1	< 0.1
Neocalanus cristatus C-5	1	2.0	< 1	< 0.1
			23017	100.

STA. 166 57 40.6 N 155 09.8 W 19 May 86 1:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
291 60 - 78 87.9 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	80	128.0	1165	19.2
Other Copepoda - nauplius	37	128.0	539	8.9
?Pseudocalanus spp. C-2	33	128.0	481	7.9
Pseudocalanus spp. - adult M	33	128.0	481	7.9
?Pseudocalanus spp. C-1	29	128.0	422	6.9
?Pseudocalanus spp. C-3	25	128.0	364	6.0
Calanus marshallae C-3	24	128.0	350	5.7
Pseudocalanus spp. - adult F	19	128.0	277	4.6
Larvacea	12	128.0	175	2.9
Calanus marshallae C-2	11	128.0	160	2.6
Pseudocalanus spp. C-4 M	32	42.7	156	2.6
Neocalanus plumchrus C-5	30	42.7	146	2.4
Pseudocalanus spp. C-5 F	28	42.7	136	2.2
Pseudocalanus spp. C-4 F	24	42.7	117	1.9
Pseudocalanus spp. C-5 M	24	42.7	117	1.9
Metriididae C-3	8	128.0	117	1.9
Cirripecta - cypris <5mm	7	128.0	102	1.7
Polychaeta <5mm	6	128.0	87	1.4
Gastropoda <5mm	5	128.0	73	1.2
Other Copepoda <2mm	4	128.0	58	1.0
Metriididae C-2	4	128.0	58	1.0
Metriididae C-1	4	128.0	58	1.0
Metridia pacifica C-4	43	11.6	57	0.9
Calanus marshallae C-4	36	11.6	48	0.8
Euphausiacea - nauplius	3	128.0	44	0.7
Calanus marshallae C-1	3	128.0	44	0.7
Metridia pacifica C-5 M	24	11.6	32	0.5
Brachyura - larva	2	128.0	29	0.5
Unidentified Calanoida C-3	2	128.0	29	0.5
Unidentified Calanoida C-2	2	128.0	29	0.5
Calanus marshallae C-5	21	11.6	28	0.5
Invertebrata - egg <5mm	1	128.0	15	0.2
Hyperiididae <5mm	1	128.0	15	0.2
Cirripecta - nauplius <5mm	1	128.0	15	0.2
Natantia - larva	1	128.0	15	0.2
Metridia pacifica C-5 F	11	11.6	15	0.2
Neocalanus plumchrus C-4	28	3.0	10	0.2
Metridia pacifica - adult F	22	3.0	8	0.1
Chaetognatha 5-20mm	16	2.0	4	0.1
Eucalanus bungii C-2	2	11.6	3	< 0.1
Euphausiacea - calyptopis 1	6	3.0	2	< 0.1
Euphausiacea - calyptopis 2	4	3.0	1	< 0.1
Acartia spp.	1	11.6	1	< 0.1
Eucalanus bungii C-4 F	1	11.6	1	< 0.1
Eucalanus bungii C-3	1	11.6	1	< 0.1
Euphausiacea - furcilia	3	3.0	1	< 0.1
Cnidaria - medusa >5mm	3	2.0	1	< 0.1

Chaetognatha >20mm	2	2.0	< 1	< 0.1
Euphausiacea - calyptopis 3	1	3.0	< 1	< 0.1
Neocalanus cristatus C-5	1	2.0	< 1	< 0.1
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		6083		100.

STA. 166 57 40.6 N 155 09.8 W 19 May 86 1:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
291 79 - 98 91.2 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	100	256.0	2808	33.5
Other Copepoda - nauplius	24	256.0	674	8.0
?Pseudocalanus spp. C-2	16	256.0	449	5.4
?Pseudocalanus spp. C-3	15	256.0	421	5.0
Pseudocalanus spp. - adult M	27	128.0	379	4.5
Calanus marshallae C-3	26	128.0	365	4.4
Calanus marshallae C-4	51	64.0	358	4.3
Pseudocalanus spp. - adult F	25	128.0	351	4.2
?Pseudocalanus spp. C-1	10	256.0	281	3.4
Hyperiididae <5mm	9	256.0	253	3.0
Pseudocalanus spp. C-5 F	17	128.0	239	2.8
Pseudocalanus spp. C-5 M	15	128.0	211	2.5
Metriididae C-2	7	256.0	197	2.3
Pseudocalanus spp. C-4 F	25	64.0	176	2.1
Metridia pacifica C-4	70	21.3	164	2.0
Larvacea	5	256.0	140	1.7
Pseudocalanus spp. C-4 M	19	64.0	133	1.6
Neocalanus plumchrus C-5	46	21.3	107	1.3
Euphausiacea - nauplius	3	256.0	84	1.0
Metriididae C-1	3	256.0	84	1.0
Metriididae C-3	3	256.0	84	1.0
Calanus marshallae C-2	5	128.0	70	0.8
Polychaeta <5mm	2	256.0	56	0.7
Metridia pacifica C-5 M	21	21.3	49	0.6
Calanus marshallae C-5	6	64.0	42	0.5
Cladocera <5mm	1	256.0	28	0.3
Echinodermata - larva <5mm	1	256.0	28	0.3
Cirripedia - nauplius <5mm	1	256.0	28	0.3
Anomura - larva	1	256.0	28	0.3
Gastropoda <5mm	1	256.0	28	0.3
Metridia pacifica C-5 F	11	21.3	26	0.3
Neocalanus plumchrus C-4	31	3.4	12	0.1
Metridia pacifica - adult F	22	3.4	8	0.1
Chaetognatha 5-20mm	26	2.0	6	0.1
Acartia spp.	14	3.4	5	0.1
Euphausiacea - calyptopis 2	5	3.4	2	< 0.1
Neocalanus cristatus C-5	8	2.0	2	< 0.1
Euphausiacea - furcilia	3	3.4	1	< 0.1
Metridia pacifica - adult M	2	3.4	1	< 0.1
Chaetognatha >20mm	2	2.0	< 1	< 0.1
Cnidaria - medusa >5mm	2	2.0	< 1	< 0.1
Eucalanus bungii C-3	1	3.4	< 1	< 0.1
Euphausiacea - calyptopis 3	1	3.4	< 1	< 0.1
Eucalanus bungii C-2	1	3.4	< 1	< 0.1
Eucalanus bungii - adult M	1	2.0	< 1	< 0.1
			8381	100.

STA. 166 57 40.6 N 155 09.8 W 19 May 86 1:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
291 99 - 148 219.1 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	184	512.0	4300	31.9
Pseudocalanus spp. - adult F	61	512.0	1426	10.6
Other Copepoda - nauplius	38	512.0	888	6.6
Pseudocalanus spp. - adult M	34	512.0	795	5.9
Other Copepoda <2mm	25	512.0	584	4.3
Calanus marshallae C-4	24	512.0	561	4.2
Pseudocalanus spp. C-5 F	37	256.0	432	3.2
Metriididae C-1	18	512.0	421	3.1
Metriididae C-3	17	512.0	397	2.9
Metriididae C-2	16	512.0	374	2.8
Metridia pacifica C-4	32	256.0	374	2.8
Calanus marshallae C-3	29	256.0	339	2.5
Metridia pacifica C-5 M	28	256.0	327	2.4
?Pseudocalanus spp. C-1	13	512.0	304	2.3
Calanus marshallae C-5	11	512.0	257	1.9
?Pseudocalanus spp. C-2	10	512.0	234	1.7
Polychaeta <5mm	10	512.0	234	1.7
Pseudocalanus spp. C-5 M	19	256.0	222	1.6
Pseudocalanus spp. C-4 F	17	256.0	199	1.5
Pseudocalanus spp. C-4 M	15	256.0	175	1.3
Metridia pacifica C-5 F	11	256.0	129	1.0
Neocalanus plumchrus C-5	33	85.3	128	1.0
Metridia pacifica - adult F	32	85.3	125	0.9
?Pseudocalanus spp. C-3	3	512.0	70	0.5
Larvacea	2	512.0	47	0.3
Calanus marshallae C-2	2	256.0	23	0.2
Ostracoda <5mm	1	512.0	23	0.2
Cirripedia - cypris <5mm	1	512.0	23	0.2
Chaetognatha <5mm	1	512.0	23	0.2
Metridia pacifica - adult M	6	85.3	23	0.2
Chaetognatha 5-20mm	73	2.0	7	< 0.1
Neocalanus plumchrus C-4	34	3.8	6	< 0.1
Neocalanus cristatus C-5	53	2.0	5	< 0.1
Chaetognatha >20mm	22	2.0	2	< 0.1
Euphausiacea - furcilia	9	3.8	2	< 0.1
Euphausiacea - calyptopis 3	7	3.8	1	< 0.1
Acartia spp.	5	3.8	1	< 0.1
Neocalanus cristatus C-4	7	2.0	1	< 0.1
Euphausiacea - calyptopis 2	3	3.8	1	< 0.1
Thysanoessa inermis A&J	5	2.0	< 1	< 0.1
Euphausiacea - calyptopis 1	1	3.8	< 1	< 0.1
Thysanoessa longipes A&J	1	2.0	< 1	< 0.1
Eucalanus bungii - adult F	1	2.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	2.0	< 1	< 0.1
			13483	100.

STA. 166 57 40.6 N 155 09.8 W 19 May 86 1:08

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH
291 150 - 195 234.3 153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	49	256.0	535	12.6
Pseudocalanus spp. - adult F	42	256.0	459	10.8
Other Copepoda <2mm	34	256.0	371	8.7
Metridia pacifica - adult F	32	256.0	350	8.2
Pseudocalanus spp. - adult M	26	256.0	284	6.7
Metridia pacifica - adult M	26	256.0	284	6.7
Metriididae C-2	19	256.0	208	4.9
Metridia pacifica C-4	38	128.0	208	4.9
Metriididae C-3	18	256.0	197	4.6
Metridia pacifica C-5 M	35	128.0	191	4.5
Calanus marshallae C-4	33	128.0	180	4.2
Metridia pacifica C-5 F	22	128.0	120	2.8
Neocalanus plumchrus C-5	188	14.2	114	2.7
Other Copepoda - nauplius	9	256.0	98	2.3
Polychaeta <5mm	9	256.0	98	2.3
Calanus marshallae C-5	17	128.0	93	2.2
Pseudocalanus spp. C-5 F	16	128.0	87	2.1
Pseudocalanus spp. C-5 M	14	128.0	76	1.8
Other Copepoda 2-5mm	4	256.0	44	1.0
Calanus marshallae C-3	58	14.2	35	0.8
Cirripedia - cypris <5mm	3	256.0	33	0.8
Metriididae C-1	3	256.0	33	0.8
Pseudocalanus spp. C-4 F	51	14.2	31	0.7
Pseudocalanus spp. C-4 M	42	14.2	25	0.6
Cirripedia - nauplius <5mm	2	256.0	22	0.5
Calanus marshallae - adult M	3	128.0	16	0.4
Thecosomata <5mm	1	256.0	11	0.3
Chaetognatha <5mm	1	256.0	11	0.3
?Pseudocalanus spp. C-2	1	256.0	11	0.3
Larvacea	1	256.0	11	0.3
Metridia spp. - adult M	1	256.0	11	0.3
Chaetognatha 5-20mm	55	2.0	5	0.1
Euphausiacea - calyptopis 3	10	3.1	1	< 0.1
Euphausiacea - calyptopis 2	10	3.1	1	< 0.1
Neocalanus cristatus C-5	14	2.0	1	< 0.1
Euphausiacea - furcilia	9	3.1	1	< 0.1
Neocalanus cristatus C-4	8	2.0	1	< 0.1
Calanus marshallae C-2	1	14.2	1	< 0.1
Euphausiacea - calyptopis 1	4	3.1	1	< 0.1
Chaetognatha >20mm	6	2.0	1	< 0.1
Hyperiididae >5mm	5	2.0	< 1	< 0.1
Other Copepoda >5mm	5	2.0	< 1	< 0.1
Polychaeta >5mm	4	2.0	< 1	< 0.1
Acartia spp.	2	3.1	< 1	< 0.1
Eucalanus bungii - adult F	1	2.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	2.0	< 1	< 0.1

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4262	100.

Appendix 2. Abundance of ichthyoplankton taxa at each station sampled with MOCNESS during FOCI cruise 2MF86 in Shelikof Strait, 1-19 May 1986.

STA. 078 56 59.2 N 155 58.1 W 08 May 86 16:11

BOTTOM DEPTH 220 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
1 - 15 187.9

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	94	1.0	500	71.2
Hippoglossoides elassodon - egg	20	1.0	106	15.2
Theragra chalcogramma - egg	8	1.0	43	6.1
Gadus macrocephalus - larva	8	1.0	43	6.1
Lepidopsetta bilineata - larva	2	1.0	11	1.5
			703	100.

SAMPLING INTERVAL VOLUME FILTERED
15 - 31 68.3

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	18	1.0	264	58.1
Theragra chalcogramma - egg	8	1.0	117	25.8
Hippoglossoides elassodon - egg	3	1.0	44	9.7
Lepidopsetta bilineata - larva	1	1.0	15	3.2
Ammodytes hexapterus - larva	1	1.0	15	3.2
			455	100.

SAMPLING INTERVAL VOLUME FILTERED
35 - 45 87.3

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	16	1.0	183	64.0
Theragra chalcogramma - egg	5	1.0	57	20.0
Hippoglossoides elassodon - egg	4	1.0	46	16.0
			286	100.

SAMPLING INTERVAL VOLUME FILTERED
45 - 61 83.5

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	8	1.0	96	61.5
Theragra chalcogramma - egg	4	1.0	48	30.8
Unidentified - larva	1	1.0	12	7.7
			156	100.

SAMPLING INTERVAL
78 - 80

VOLUME FILTERED
117.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	8	1.0	68	53.3
Theragra chalcogramma - larva	5	1.0	43	33.3
Stenobranchius leucopsarus - larva	1	1.0	9	6.7
Hippoglossoides elassodon - egg	1	1.0	9	6.7
			129	100.

SAMPLING INTERVAL
98 - 101

VOLUME FILTERED
161.2

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	14	1.0	87	87.5
Theragra chalcogramma - larva	2	1.0	12	12.5
			99	100.

SAMPLING INTERVAL
101 - 200

VOLUME FILTERED
977.3

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	31	1.0	32	81.6
Theragra chalcogramma - larva	4	1.0	4	10.5
Hippoglossoides elassodon - egg	3	1.0	3	7.9
			39	100.

STA. 079 57 00.9 N 155 57.3 W 08 May 86 22:35

BOTTOM DEPTH 227 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
2 - 14 223.5

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	74	1.0	331	61.2
Hippoglossoides elassodon - egg	38	1.0	170	31.4
Theragra chalcogramma - egg	6	1.0	27	5.0
Ammodytes hexapterus - larva	1	1.0	4	0.8
Hexagrammos decagrammus - larva	1	1.0	4	0.8
Disintegrated - larva	1	1.0	4	0.8
			540	100.

SAMPLING INTERVAL VOLUME FILTERED
15 - 30 206.9

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	146	1.0	705	84.9
Hippoglossoides elassodon - egg	16	1.0	77	9.3
Theragra chalcogramma - egg	7	1.0	34	4.1
Pleuronectes quadrituberculatus - egg	2	1.0	10	1.2
Lepidopsetta bilineata - larva	1	1.0	5	0.6
			831	100.

SAMPLING INTERVAL VOLUME FILTERED
30 - 47 215.9

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	42	1.0	194	56.8
Theragra chalcogramma - egg	17	1.0	79	23.0
Hippoglossoides elassodon - egg	11	1.0	51	14.9
Lumpenus maculatus - larva	2	1.0	9	2.7
Cottidae - larva	1	1.0	5	1.4
Ammodytes hexapterus - larva	1	1.0	5	1.4
			343	100.

SAMPLING INTERVAL VOLUME FILTERED
46 - 80 356.8

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	20	1.0	56	74.1

Theragra chalcogramma - larva	4	1.0	11	14.8
Hippoglossoides elassodon - egg	3	1.0	8	11.1
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			75	100.

SAMPLING INTERVAL VOLUME FILTERED
79 - 99 173.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	3	1.0	17	60.0
Hippoglossoides elassodon - egg	2	1.0	12	40.0
			-----	-----
			29	100.

SAMPLING INTERVAL VOLUME FILTERED
99 - 148 354.9

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	27	1.0	76	87.1
Theragra chalcogramma - larva	3	1.0	8	9.7
Hippoglossoides elassodon - egg	1	1.0	3	3.2
			-----	-----
			87	100.

SAMPLING INTERVAL VOLUME FILTERED
149 - 199 283.5

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	39	1.0	138	76.5
Theragra chalcogramma - larva	12	1.0	42	23.5
			-----	-----
			180	100.

STA. 080 57 00.9 N 155 58.2 W 09 May 86 4:31

BOTTOM DEPTH 235 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
2 - 13 109.9

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	9	1.0	82	47.4
Theragra chalcogramma - egg	6	1.0	55	31.6
Hippoglossoides elassodon - egg	3	1.0	27	15.8
Gadus macrocephalus - larva	1	1.0	9	5.3
			173	100.

SAMPLING INTERVAL VOLUME FILTERED
13 - 28 120.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	165	1.0	1368	85.9
Hippoglossoides elassodon - egg	10	1.0	83	5.2
Theragra chalcogramma - egg	8	1.0	66	4.2
Pleuronectes quadrituberculatus - egg	3	1.0	25	1.6
Ammodytes hexapterus - larva	2	1.0	17	1.0
Unidentified - larva	2	1.0	17	1.0
Gadus macrocephalus - larva	1	1.0	8	0.5
Lepidopsetta bilineata - larva	1	1.0	8	0.5
			1592	100.

SAMPLING INTERVAL VOLUME FILTERED
29 - 45 152.9

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	36	1.0	235	70.6
Theragra chalcogramma - egg	9	1.0	59	17.6
Hippoglossoides elassodon - egg	5	1.0	33	9.8
Pleuronectes quadrituberculatus - egg	1	1.0	7	2.0
			334	100.

SAMPLING INTERVAL VOLUME FILTERED
46 - 59 174.3

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	12	1.0	69	66.7
Theragra chalcogramma - larva	4	1.0	23	22.2

Ammodytes hexapterus - larva	1	1.0	6	5.6
Hippoglossoides elassodon - egg	1	1.0	6	5.6
			-----	-----
			104	100.

SAMPLING INTERVAL VOLUME FILTERED
60 - 79 160.5

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	11	1.0	69	84.6
Hippoglossoides elassodon - egg	2	1.0	12	15.4
			-----	-----
			81	100.

SAMPLING INTERVAL VOLUME FILTERED
79 - 100 134.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	12	1.0	89	85.7
Hippoglossoides elassodon - egg	1	1.0	7	7.1
Theragra chalcogramma - larva	1	1.0	7	7.1
			-----	-----
			103	100.

SAMPLING INTERVAL VOLUME FILTERED
100 - 147 227.8

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	35	1.0	154	76.1
Theragra chalcogramma - larva	10	1.0	44	21.7
Hippoglossoides elassodon - egg	1	1.0	4	2.2
			-----	-----
			202	100.

SAMPLING INTERVAL VOLUME FILTERED
148 - 200 235.2

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - larva	35	1.0	149	58.3
Theragra chalcogramma - egg	23	1.0	98	38.3
Hippoglossoides elassodon - egg	2	1.0	9	3.3
			-----	-----
			256	100.

STA. 081 57 03.0 N 155 56.3 W 09 May 86 10:08

BOTTOM DEPTH 242 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
2 - 15 156.8

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	54	1.0	344	54.5
Hippoglossoides elassodon - egg	38	1.0	242	38.4
Ammodytes hexapterus - larva	4	1.0	26	4.0
Theragra chalcogramma - egg	3	1.0	19	3.0
			631	100.

SAMPLING INTERVAL VOLUME FILTERED
15 - 30 114.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	261	1.0	2277	89.4
Hippoglossoides elassodon - egg	13	1.0	113	4.5
Ammodytes hexapterus - larva	7	1.0	61	2.4
Theragra chalcogramma - egg	7	1.0	61	2.4
Lepidopsetta bilineata - larva	2	1.0	17	0.7
Myctophidae - larva	1	1.0	9	0.3
Pleuronectes quadrituberculatus - egg	1	1.0	9	0.3
			2547	100.

SAMPLING INTERVAL VOLUME FILTERED
30 - 58 235.8

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	133	1.0	564	87.5
Theragra chalcogramma - egg	9	1.0	38	5.9
Hippoglossoides elassodon - egg	4	1.0	17	2.6
Ammodytes hexapterus - larva	3	1.0	13	2.0
Lepidopsetta bilineata - larva	2	1.0	8	1.3
Hippoglossoides elassodon - larva	1	1.0	4	0.7
			644	100.

SAMPLING INTERVAL VOLUME FILTERED
59 - 80 163.9

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	12	1.0	73	57.1

Theragra chalcogramma - egg	4	1.0	24	19.0
Ammodytes hexapterus - larva	3	1.0	18	14.3
Lumpenella longirostris - larva	1	1.0	6	4.8
Hippoglossoides elassodon - egg	1	1.0	6	4.8
			-----	-----
			127	100.

SAMPLING INTERVAL VOLUME FILTERED
80 - 100 172.1

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	14	1.0	81	73.7
Hippoglossoides elassodon - egg	4	1.0	23	21.1
Theragra chalcogramma - larva	1	1.0	6	5.3
			-----	-----
			110	100.

SAMPLING INTERVAL VOLUME FILTERED
100 - 150 457.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	47	1.0	103	94.0
Theragra chalcogramma - larva	2	1.0	4	4.0
Hippoglossoides elassodon - egg	1	1.0	2	2.0
			-----	-----
			109	100.

SAMPLING INTERVAL VOLUME FILTERED
150 - 202 480.5

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	141	1.0	293	95.9
Theragra chalcogramma - larva	4	1.0	8	2.7
Hippoglossoides elassodon - egg	2	1.0	4	1.4
			-----	-----
			305	100.

STA. 091 57 02.1 N 155 42.6 W 10 May 86 16:08

BOTTOM DEPTH 293 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
2 - 15 100.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	149	1.0	1484	91.4
Hippoglossoides elassodon - egg	7	1.0	70	4.3
Theragra chalcogramma - egg	5	1.0	50	3.1
Ammodytes hexapterus - larva	1	1.0	10	0.6
Pleuronectes quadrituberculatus - egg	1	1.0	10	0.6
			1624	100.

SAMPLING INTERVAL VOLUME FILTERED
15 - 30 120.5

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	41	1.0	340	78.8
Theragra chalcogramma - egg	5	1.0	41	9.6
Ammodytes hexapterus - larva	3	1.0	25	5.8
Hippoglossoides elassodon - egg	2	1.0	17	3.8
Agonidae - larva	1	1.0	8	1.9
			431	100.

SAMPLING INTERVAL VOLUME FILTERED
29 - 45 126.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	6	1.0	47	42.9
Theragra chalcogramma - egg	6	1.0	47	42.9
Hippoglossoides elassodon - egg	2	1.0	16	14.3
			110	100.

SAMPLING INTERVAL VOLUME FILTERED
46 - 58 84.2

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	2	1.0	24	50.0
Theragra chalcogramma - egg	1	1.0	12	25.0
Hippoglossoides elassodon - egg	1	1.0	12	25.0
			48	100.

SAMPLING INTERVAL
59 - 78

VOLUME FILTERED
120.1

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	9	1.0	75	75.0
Hippoglossoides elassodon - egg	1	1.0	8	8.3
Malacocottus zonurus type 1 - larva	1	1.0	8	8.3
Theragra chalcogramma - larva	1	1.0	8	8.3
			99	100.

SAMPLING INTERVAL
79 - 99

VOLUME FILTERED
227.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	22	1.0	97	78.6
Theragra chalcogramma - larva	4	1.0	18	14.3
Hippoglossoides elassodon - egg	2	1.0	9	7.1
			124	100.

SAMPLING INTERVAL
101 - 149

VOLUME FILTERED
225.2

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	25	1.0	111	75.8
Theragra chalcogramma - larva	6	1.0	27	18.2
Hippoglossoides elassodon - egg	2	1.0	9	6.1
			147	100.

SAMPLING INTERVAL
151 - 229

VOLUME FILTERED
338.2

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	123	1.0	364	75.5
Theragra chalcogramma - larva	33	1.0	98	20.2
Hippoglossoides elassodon - egg	3	1.0	9	1.8
Ammodytes hexapterus - larva	3	1.0	9	1.8
Hexagrammos decagrammus - larva	1	1.0	3	0.6
			483	100.

STA. 093 56 59.3 N 155 40.7 W 10 May 86 22:43

BOTTOM DEPTH 296 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
2 - 14 70.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	95	1.0	1350	63.3
Hippoglossoides elassodon - egg	47	1.0	668	31.3
Theragra chalcogramma - egg	7	1.0	99	4.7
Pleuronectes quadrituberculatus - egg	1	1.0	14	0.7
			2131	100.

SAMPLING INTERVAL VOLUME FILTERED
30 - 45 93.2

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	54	1.0	580	63.5
Hippoglossoides elassodon - egg	18	1.0	193	21.2
Theragra chalcogramma - egg	6	1.0	64	7.1
Ammodytes hexapterus - larva	5	1.0	54	5.9
Dasycottus setiger - larva	1	1.0	11	1.2
Gymnocanthus type A - larva	1	1.0	11	1.2
			913	100.

SAMPLING INTERVAL VOLUME FILTERED
46 - 78 307.2

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	13	1.0	42	54.2
Hippoglossoides elassodon - egg	5	1.0	16	20.8
Theragra chalcogramma - larva	5	1.0	16	20.8
Malacocottus zonurus type 1 - larva	1	1.0	3	4.2
			77	100.

SAMPLING INTERVAL VOLUME FILTERED
77 - 99 116.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	7	1.0	60	43.8
Theragra chalcogramma - larva	6	1.0	51	37.5
Hippoglossoides elassodon - egg	2	1.0	17	12.5
Agonidae - larva	1	1.0	9	6.3

137 100.

SAMPLING INTERVAL
99 - 147

VOLUME FILTERED
222.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	27	1.0	121	54.0
Hippoglossoides elassodon - egg	11	1.0	49	22.0
Theragra chalcogramma - larva	10	1.0	45	20.0
Agonidae - larva	2	1.0	9	4.0
			224	100.

SAMPLING INTERVAL
149 - 214

VOLUME FILTERED
153.2

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	93	1.0	607	42.5
Theragra chalcogramma - egg	68	1.0	444	31.1
Hippoglossoides elassodon - egg	54	1.0	353	24.7
Pleuronectes quadrituberculatus - egg	1	1.0	7	0.5
Gadidae - larva	1	1.0	7	0.5
Cyclopteridae - larva	1	1.0	7	0.5
Unidentified - larva	1	1.0	7	0.5
			1432	100.

STA. 095 56 56.2 N 155 37.2 W 11 May 86 4:33

BOTTOM DEPTH 293 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
3 - 14 124.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	115	1.0	922	65.7
Hippoglossoides elassodon - egg	47	1.0	377	26.9
Theragra chalcogramma - egg	7	1.0	56	4.0
Ammodytes hexapterus - larva	4	1.0	32	2.3
Lumpenus maculatus - larva	1	1.0	8	0.6
Hemilepidotus hemilepidotus - larva	1	1.0	8	0.6
			1403	100.

SAMPLING INTERVAL VOLUME FILTERED
14 - 30 139.8

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	164	1.0	1173	75.6
Hippoglossoides elassodon - egg	47	1.0	336	21.7
Theragra chalcogramma - egg	3	1.0	21	1.4
Ammodytes hexapterus - larva	2	1.0	14	0.9
Gadus macrocephalus - larva	1	1.0	7	0.5
			1551	100.

SAMPLING INTERVAL VOLUME FILTERED
31 - 44 140.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	209	1.0	1488	90.9
Hippoglossoides elassodon - egg	13	1.0	93	5.7
Ammodytes hexapterus - larva	6	1.0	43	2.6
Theragra chalcogramma - egg	2	1.0	14	0.9
			1638	100.

SAMPLING INTERVAL VOLUME FILTERED
43 - 59 427.5

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	26	1.0	61	52.0
Hippoglossoides elassodon - egg	12	1.0	28	24.0
Theragra chalcogramma - egg	9	1.0	21	18.0

Ammodytes hexapterus - larva	2	1.0	5	4.0
Agonidae - larva	1	1.0	2	2.0
			-----	-----
			117	100.

SAMPLING INTERVAL VOLUME FILTERED
60 - 78 274.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Hippoglossoides elassodon - egg	14	1.0	51	53.8
Theragra chalcogramma - egg	7	1.0	26	26.9
Theragra chalcogramma - larva	5	1.0	18	19.2
			-----	-----
			95	100.

SAMPLING INTERVAL VOLUME FILTERED
78 - 97 188.5

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - larva	7	1.0	37	43.8
Theragra chalcogramma - egg	5	1.0	27	31.3
Hippoglossoides elassodon - egg	4	1.0	21	25.0
			-----	-----
			85	100.

SAMPLING INTERVAL VOLUME FILTERED
98 - 150 365.5

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	43	1.0	118	62.3
Theragra chalcogramma - larva	13	1.0	36	18.8
Hippoglossoides elassodon - egg	12	1.0	33	17.4
Unidentified - egg	1	1.0	3	1.4
			-----	-----
			190	100.

SAMPLING INTERVAL VOLUME FILTERED
151 - 252 728.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	43	1.0	59	47.3
Theragra chalcogramma - larva	35	1.0	48	38.5
Hippoglossoides elassodon - egg	10	1.0	14	11.0
Unidentified - egg	2	1.0	3	2.2
Lumpenella longirostris - larva	1	1.0	1	1.1
			-----	-----
			125	100.

STA. 119 56 37.2 N 156 24.9 W 13 May 86 18:30

BOTTOM DEPTH 210 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
2 - 15 102.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	41	1.0	399	82.0
Hippoglossoides elassodon - egg	7	1.0	68	14.0
Ammodytes hexapterus - larva	2	1.0	19	4.0
			486	100.

SAMPLING INTERVAL VOLUME FILTERED
16 - 30 132.8

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	350	1.0	2635	97.0
Hippoglossoides elassodon - egg	7	1.0	53	1.9
Lepidopsetta bilineata - larva	2	1.0	15	0.6
Ammodytes hexapterus - larva	2	1.0	15	0.6
			2718	100.

SAMPLING INTERVAL VOLUME FILTERED
30 - 45 157.9

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	162	1.0	1026	93.6
Hippoglossoides elassodon - egg	4	1.0	30	2.3
Theragra chalcogramma - egg	4	1.0	30	2.3
Lepidopsetta bilineata - larva	2	1.0	13	1.2
Ammodytes hexapterus - larva	1	1.0	6	0.6
			1105	100.

SAMPLING INTERVAL VOLUME FILTERED
45 - 61 150.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	12	1.0	80	50.0
Theragra chalcogramma - egg	5	1.0	33	20.8
Hippoglossoides elassodon - egg	4	1.0	27	16.7
Agonidae - larva	1	1.0	7	4.2
Lepidopsetta bilineata - larva	1	1.0	7	4.2
Cottidae - larva	1	1.0	7	4.2

161 100.

SAMPLING INTERVAL VOLUME FILTERED
61 - 80 276.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	15	1.0	54	60.0
Theragra chalcogramma - larva	7	1.0	25	28.0
Agonidae - larva	1	1.0	4	4.0
Ammodytes hexapterus - larva	1	1.0	4	4.0
Hippoglossoides elassodon - egg	1	1.0	4	4.0
			91	100.

SAMPLING INTERVAL VOLUME FILTERED
80 - 100 149.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	7	1.0	47	58.3
Theragra chalcogramma - larva	4	1.0	27	33.3
Hippoglossoides elassodon - egg	1	1.0	7	8.3
			81	100.

SAMPLING INTERVAL VOLUME FILTERED
101 - 124 159.2

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	5	1.0	31	62.5
Theragra chalcogramma - egg	3	1.0	19	37.5
			50	100.

SAMPLING INTERVAL VOLUME FILTERED
125 - 152 280.9

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	17	1.0	61	53.1
Theragra chalcogramma - egg	15	1.0	53	46.9
			114	100.

STA. 120 56 37.6 N 156 23.9 W 13 May 86 22:20

BOTTOM DEPTH 210 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
2 - 14 106.1

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	31	1.0	292	86.1
Hippoglossoides elassodon - egg	4	1.0	38	11.1
Ammodytes hexapterus - larva	1	1.0	9	2.8
			339	100.

SAMPLING INTERVAL VOLUME FILTERED
15 - 29 121.8

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	292	1.0	2397	96.1
Hippoglossoides elassodon - egg	8	1.0	66	2.6
Theragra chalcogramma - egg	3	1.0	25	1.0
Ammodytes hexapterus - larva	1	1.0	8	0.3
			2496	100.

SAMPLING INTERVAL VOLUME FILTERED
30 - 44 113.1

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	321	1.0	2839	98.5
Ammodytes hexapterus - larva	2	1.0	18	0.6
Lumpenus maculatus - larva	1	1.0	9	0.3
Gadus macrocephalus - larva	1	1.0	9	0.3
Hippoglossoides elassodon - egg	1	1.0	9	0.3
			2884	100.

SAMPLING INTERVAL VOLUME FILTERED
45 - 59 122.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	39	1.0	320	81.3
Theragra chalcogramma - egg	4	1.0	33	8.3
Hippoglossoides elassodon - egg	4	1.0	33	8.3
Zapora silenus - larva	1	1.0	8	2.1
			394	100.

SAMPLING INTERVAL
59 - 78

VOLUME FILTERED
119.8

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	3	1.0	25	60.0
Hippoglossoides elassodon - egg	1	1.0	8	20.0
Theragra chalcogramma - larva	1	1.0	8	20.0
			41	100.

SAMPLING INTERVAL
80 - 99

VOLUME FILTERED
175.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - egg	7	1.0	40	50.0
Theragra chalcogramma - egg	4	1.0	23	28.6
Theragra chalcogramma - larva	2	1.0	11	14.3
Agonidae - larva	1	1.0	6	7.1
			80	100.

SAMPLING INTERVAL
100 - 148

VOLUME FILTERED
314.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	14	1.0	45	46.7
Theragra chalcogramma - larva	12	1.0	38	40.0
Hippoglossoides elassodon - egg	3	1.0	10	10.0
Leuroglossus schmidtii - larva	1	1.0	3	3.3
			96	100.

SAMPLING INTERVAL
148 - 176

VOLUME FILTERED
128.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	13	1.0	101	59.1
Theragra chalcogramma - larva	9	1.0	70	40.9
			171	100.

STA. 121 56 37.4 N 156 24.7 W 14 May 86 6:25

BOTTOM DEPTH 210 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
2 - 14 89.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	15	1.0	167	57.7
Hippoglossoides elassodon - egg	3	1.0	33	11.5
Theragra chalcogramma - egg	3	1.0	33	11.5
Ammodytes hexapterus - larva	2	1.0	22	7.7
Pleuronectes quadrituberculatus - egg	1	1.0	11	3.8
Lepidopsetta bilineata - larva	1	1.0	11	3.8
Unidentified - larva	1	1.0	11	3.8
			288	100.

SAMPLING INTERVAL VOLUME FILTERED
14 - 30 108.2

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	10	1.0	92	66.7
Ammodytes hexapterus - larva	2	1.0	18	13.3
Stenobranchius leucopsarus - larva	1	1.0	9	6.7
Theragra chalcogramma - egg	1	1.0	9	6.7
Hippoglossoides elassodon - egg	1	1.0	9	6.7
			137	100.

SAMPLING INTERVAL VOLUME FILTERED
30 - 45 129.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	60	1.0	463	81.1
Ammodytes hexapterus - larva	5	1.0	39	6.8
Theragra chalcogramma - egg	5	1.0	39	6.8
Hippoglossoides elassodon - egg	2	1.0	15	2.7
Poroclinus rothrocki - larva	1	1.0	8	1.4
Gadus macrocephalus - larva	1	1.0	8	1.4
			572	100.

SAMPLING INTERVAL VOLUME FILTERED
46 - 60 119.3

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
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Theragra chalcogramma - larva	21	1.0	176	61.8
Ammodytes hexapterus - larva	8	1.0	67	23.5
Hippoglossoides elassodon - egg	3	1.0	25	8.8
Theragra chalcogramma - egg	2	1.0	17	5.9
			-----	-----
			285	100.

SAMPLING INTERVAL VOLUME FILTERED
60 - 80 159.9

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	4	1.0	25	44.4
Ammodytes hexapterus - larva	4	1.0	25	44.4
Hippoglossoides elassodon - egg	1	1.0	6	11.1
			-----	-----
			56	100.

SAMPLING INTERVAL VOLUME FILTERED
81 - 101 184.5

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	5	1.0	27	62.5
Theragra chalcogramma - larva	2	1.0	11	25.0
Hippoglossoides elassodon - egg	1	1.0	5	12.5
			-----	-----
			43	100.

SAMPLING INTERVAL VOLUME FILTERED
100 - 150 394.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - larva	37	1.0	94	82.2
Theragra chalcogramma - egg	8	1.0	20	17.8
			-----	-----
			114	100.

SAMPLING INTERVAL VOLUME FILTERED
150 - 163 116.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	4	1.0	34	40.0
Theragra chalcogramma - larva	4	1.0	34	40.0
Mallotus villosus - larva	1	1.0	9	10.0
Cottidae - larva	1	1.0	9	10.0
			-----	-----
			86	100.

STA. 122 55 55.9 N 156 28.8 W 15 May 86 10:43

BOTTOM DEPTH 229 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
2 - 15 106.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	86	1.0	807	86.9
Hippoglossoides elassodon - egg	11	1.0	103	11.1
Lyconectes aleutensis - larva	1	1.0	9	1.0
Theragra chalcogramma - egg	1	1.0	9	1.0
			928	100.

SAMPLING INTERVAL VOLUME FILTERED
15 - 29 82.8

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	122	1.0	1474	94.6
Hippoglossoides elassodon - egg	4	1.0	48	3.1
Ammodytes hexapterus - larva	2	1.0	24	1.6
Theragra chalcogramma - egg	1	1.0	12	0.8
			1558	100.

SAMPLING INTERVAL VOLUME FILTERED
30 - 44 103.9

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	190	1.0	1828	93.1
Hippoglossoides elassodon - egg	7	1.0	67	3.4
Ammodytes hexapterus - larva	4	1.0	38	2.0
Gadus macrocephalus - larva	1	1.0	10	0.5
Theragra chalcogramma - egg	1	1.0	10	0.5
Hemilepidotus hemilepidotus - larva	1	1.0	10	0.5
			1963	100.

SAMPLING INTERVAL VOLUME FILTERED
45 - 60 118.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Ammodytes hexapterus - larva	13	1.0	110	76.5
Theragra chalcogramma - larva	2	1.0	17	11.8
Hippoglossoides elassodon - egg	1	1.0	8	5.9
Poroclinus rothrocki - larva	1	1.0	8	5.9

-----	-----
143	100.

SAMPLING INTERVAL
60 - 80

VOLUME FILTERED
188.3

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - larva	14	1.0	74	60.9
Ammodytes hexapterus - larva	8	1.0	42	34.8
Hippoglossoides elassodon - egg	1	1.0	5	4.3
			-----	-----
			121	100.

SAMPLING INTERVAL
80 - 100

VOLUME FILTERED
157.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Agonidae - larva	1	1.0	6	50.0
Cottidae - larva	1	1.0	6	50.0
			-----	-----
			12	100.

SAMPLING INTERVAL
100 - 149

VOLUME FILTERED
343.5

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Ammodytes hexapterus - larva	2	1.0	6	33.3
Theragra chalcogramma - larva	2	1.0	6	33.3
Theragra chalcogramma - egg	2	1.0	6	33.3
			-----	-----
			18	100.

SAMPLING INTERVAL
150 - 172

VOLUME FILTERED
152.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - larva	4	1.0	26	80.0
Theragra chalcogramma - egg	1	1.0	7	20.0
			-----	-----
			33	100.

STA. 125 55 57.1 N 156 23.2 W 15 May 86 18:03

BOTTOM DEPTH 223 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
2 - 14 91.3

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	26	1.0	285	74.3
Ammodytes hexapterus - larva	4	1.0	44	11.4
Hippoglossoides elassodon - egg	3	1.0	33	8.6
Theragra chalcogramma - egg	2	1.0	22	5.7
			384	100.

SAMPLING INTERVAL VOLUME FILTERED
15 - 29 93.1

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	333	1.0	3578	96.0
Ammodytes hexapterus - larva	6	1.0	64	1.7
Hippoglossoides elassodon - egg	6	1.0	64	1.7
Lepidopsetta bilineata - larva	2	1.0	21	0.6
Gadus macrocephalus - larva	0	1.0	< 1	< 0.1
			3727	100.

SAMPLING INTERVAL VOLUME FILTERED
30 - 44 121.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	145	1.0	1191	89.0
Hippoglossoides elassodon - egg	5	1.0	41	3.1
Theragra chalcogramma - egg	5	1.0	41	3.1
Ammodytes hexapterus - larva	3	1.0	25	1.8
Gadus macrocephalus - larva	2	1.0	16	1.2
Lepidopsetta bilineata - larva	2	1.0	16	1.2
Lumpenus maculatus - larva	1	1.0	8	0.6
			1338	100.

SAMPLING INTERVAL VOLUME FILTERED
45 - 60 111.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - egg	6	1.0	54	54.5
Theragra chalcogramma - larva	3	1.0	27	27.3

Theragra chalcogramma - egg	1	1.0	9	9.1
Ammodytes hexapterus - larva	1	1.0	9	9.1
			-----	-----
			99	100.

SAMPLING INTERVAL VOLUME FILTERED
61 - 80 137.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Hippoglossoides elassodon - egg	2	1.0	15	33.3
Theragra chalcogramma - larva	2	1.0	15	33.3
Isopsetta isolepis - egg	1	1.0	7	16.7
Theragra chalcogramma - egg	1	1.0	7	16.7
			-----	-----
			44	100.

SAMPLING INTERVAL VOLUME FILTERED
80 - 100 133.3

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Agonidae - larva	1	1.0	8	33.3
Cottidae - larva	1	1.0	8	33.3
Theragra chalcogramma - egg	1	1.0	8	33.3
			-----	-----
			24	100.

SAMPLING INTERVAL VOLUME FILTERED
100 - 150 415.3

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Gadus macrocephalus - larva	1	1.0	2	100.0
			-----	-----
			2	100.

SAMPLING INTERVAL VOLUME FILTERED
150 - 175 166.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Cottidae - larva	1	1.0	6	50.0
Agonidae - larva	1	1.0	6	50.0
			-----	-----
			12	100.

STA. 147 56 21.0 N 156 53.3 W 17 May 86 8:52

BOTTOM DEPTH 126 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
1 - 15 163.1

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Gadus macrocephalus - larva	68	1.0	417	61.3
Hippoglossoides elassodon - egg	17	1.0	104	15.3
Theragra chalcogramma - larva	10	1.0	61	9.0
Lepidopsetta bilineata - larva	7	1.0	43	6.3
Theragra chalcogramma - egg	6	1.0	37	5.4
Ammodytes hexapterus - larva	3	1.0	18	2.7
			680	100.

SAMPLING INTERVAL VOLUME FILTERED
16 - 30 188.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Gadus macrocephalus - larva	369	1.0	1958	82.4
Theragra chalcogramma - larva	32	1.0	170	7.1
Lepidopsetta bilineata - larva	11	1.0	58	2.5
Hippoglossoides elassodon - egg	10	1.0	53	2.2
Theragra chalcogramma - egg	7	1.0	37	1.6
Ammodytes hexapterus - larva	7	1.0	37	1.6
Disintegrated - larva	5	1.0	27	1.1
Lumpenus maculatus - larva	3	1.0	16	0.7
Anoplarchus spp. - larva	2	1.0	11	0.4
Cottidae - larva	1	1.0	5	0.2
Pholis spp. - larva	1	1.0	5	0.2
			2377	100.

SAMPLING INTERVAL VOLUME FILTERED
31 - 45 112.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Gadus macrocephalus - larva	97	1.0	862	71.3
Ammodytes hexapterus - larva	19	1.0	169	14.0
Lepidopsetta bilineata - larva	13	1.0	115	9.6
Theragra chalcogramma - egg	2	1.0	18	1.5
Hippoglossoides elassodon - egg	1	1.0	9	0.7
Disintegrated - larva	1	1.0	9	0.7
Cottidae - larva	1	1.0	9	0.7
Lumpenus maculatus - larva	1	1.0	9	0.7
Radulinus asprellus - larva	1	1.0	9	0.7

1209 100.

SAMPLING INTERVAL VOLUME FILTERED
45 - 59 65.2

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Ammodytes hexapterus - larva	5	1.0	77	35.7
Lepidopsetta bilineata - larva	3	1.0	46	21.4
Gadus macrocephalus - larva	3	1.0	46	21.4
Theragra chalcogramma - larva	2	1.0	31	14.3
Hippoglossoides elassodon - egg	1	1.0	15	7.1
			-----	-----
			215	100.

SAMPLING INTERVAL VOLUME FILTERED
60 - 80 156.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Ammodytes hexapterus - larva	1	1.0	6	50.0
Radulinus asprellus - larva	1	1.0	6	50.0
			-----	-----
			12	100.

SAMPLING INTERVAL VOLUME FILTERED
80 - 99 164.3

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Cottidae - larva	1	1.0	6	33.3
Gadus macrocephalus - larva	1	1.0	6	33.3
Hippoglossoides elassodon - egg	1	1.0	6	33.3
			-----	-----
			18	100.

STA. 157 56 21.1 N 156 53.0 W 18 May 86 3:31

BOTTOM DEPTH 123 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
2 - 15 154.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	45	1.0	291	38.5
Gadus macrocephalus - larva	33	1.0	214	28.2
Hippoglossoides elassodon - egg	19	1.0	123	16.2
Lepidopsetta bilineata - larva	14	1.0	91	12.0
Ammodytes hexapterus - larva	6	1.0	39	5.1
			758	100.

SAMPLING INTERVAL VOLUME FILTERED
15 - 30 216.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Gadus macrocephalus - larva	54	1.0	249	50.5
Ammodytes hexapterus - larva	24	1.0	111	22.4
Theragra chalcogramma - larva	11	1.0	51	10.3
Hippoglossoides elassodon - egg	7	1.0	32	6.5
Lepidopsetta bilineata - larva	5	1.0	23	4.7
Theragra chalcogramma - egg	4	1.0	18	3.7
Zapora silenus - larva	1	1.0	5	0.9
Cottidae - larva	1	1.0	5	0.9
			494	100.

SAMPLING INTERVAL VOLUME FILTERED
30 - 45 176.8

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	4	1.0	23	30.8
Gadus macrocephalus - larva	2	1.0	11	15.4
Ammodytes hexapterus - larva	2	1.0	11	15.4
Lumpenus maculatus - larva	2	1.0	11	15.4
Hippoglossoides elassodon - egg	2	1.0	11	15.4
Artemius meanyi - larva	1	1.0	6	7.7
			73	100.

SAMPLING INTERVAL
45 - 59

VOLUME FILTERED
102.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Cottidae - larva	3	1.0	29	50.0
Gadus macrocephalus - larva	1	1.0	10	16.7
Hippoglossoides elassodon - egg	1	1.0	10	16.7
Cyclopteridae - larva	1	1.0	10	16.7
			59	100.

SAMPLING INTERVAL
60 - 79

VOLUME FILTERED
102.7

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - egg	1	1.0	10	100.0
			10	100.

SAMPLING INTERVAL
80 - 100

VOLUME FILTERED
97.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	1	1.0	10	50.0
Theragra chalcogramma - larva	1	1.0	10	50.0
			20	100.

STA. 166 57 40.6 N 155 09.8 W 19 May 86 1:08

BOTTOM DEPTH 291 NET MESH 153

SAMPLING INTERVAL VOLUME FILTERED
1 - 15 85.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - egg	56	1.0	659	28.3
Theragra chalcogramma - egg	45	1.0	530	22.7
Theragra chalcogramma - larva	39	1.0	459	19.7
Gadus macrocephalus - larva	16	1.0	188	8.1
Platichthys stellatus - larva	14	1.0	165	7.1
Lepidopsetta bilineata - larva	13	1.0	153	6.6
Hippoglossoides elassodon - larva	6	1.0	71	3.0
Ammodytes hexapterus - larva	3	1.0	35	1.5
Parophrys vetulus - egg	2	1.0	24	1.0
Stenobranchius leucopsarus - larva	1	1.0	12	0.5
Platichthys stellatus - egg	1	1.0	12	0.5
Cyclopteridae - larva	1	1.0	12	0.5
Pleuronectidae - egg	1	1.0	12	0.5
			2332	100.

SAMPLING INTERVAL VOLUME FILTERED
16 - 32 117.6

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	88	1.0	748	43.1
Hippoglossoides elassodon - egg	47	1.0	400	23.0
Theragra chalcogramma - egg	39	1.0	332	19.1
Lepidopsetta bilineata - larva	20	1.0	170	9.8
Hippoglossoides elassodon - larva	3	1.0	26	1.5
Cyclopteridae - larva	3	1.0	26	1.5
Cottidae - larva	1	1.0	9	0.5
Agonidae - larva	1	1.0	9	0.5
Platichthys stellatus - larva	1	1.0	9	0.5
Pleuronectes quadrituberculatus - egg	1	1.0	9	0.5
			1738	100.

SAMPLING INTERVAL VOLUME FILTERED
32 - 44 59.4

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	4	1.0	67	28.6
Theragra chalcogramma - egg	4	1.0	67	28.6
Hippoglossoides elassodon - egg	3	1.0	50	21.4
Lepidopsetta bilineata - larva	1	1.0	17	7.1

Gadus macrocephalus - larva	1	1.0	17	7.1
Psettichthys type 2 - larva	1	1.0	17	7.1
			-----	-----
			235	100.

SAMPLING INTERVAL VOLUME FILTERED
44 - 60 90.1

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	10	1.0	111	62.5
Hippoglossoides elassodon - egg	2	1.0	22	12.5
Theragra chalcogramma - larva	2	1.0	22	12.5
Lepidopsetta bilineata - larva	1	1.0	11	6.3
Gadus macrocephalus - larva	1	1.0	11	6.3
			-----	-----
			177	100.

SAMPLING INTERVAL VOLUME FILTERED
60 - 78 87.9

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	8	1.0	91	80.0
Hippoglossoides elassodon - egg	2	1.0	23	20.0
			-----	-----
			114	100.

SAMPLING INTERVAL VOLUME FILTERED
79 - 98 91.2

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	7	1.0	77	77.8
Hippoglossoides elassodon - egg	1	1.0	11	11.1
Gadidae - larva	1	1.0	11	11.1
			-----	-----
			99	100.

SAMPLING INTERVAL VOLUME FILTERED
99 - 148 219.1

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	18	1.0	82	78.3
Theragra chalcogramma - larva	4	1.0	18	17.4
Hippoglossoides elassodon - egg	1	1.0	5	4.3
			-----	-----
			105	100.

SAMPLING INTERVAL
150 - 195

VOLUME FILTERED
234.3

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	20	1.0	85	95.2
Theragra chalcogramma - larva	1	1.0	4	4.8
			89	100.