



**Northwest and  
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National Marine  
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U.S. DEPARTMENT OF COMMERCE

**NWAFRC PROCESSED REPORT 90-05**

Vertical Distribution of Zooplankton,  
including Ichthyoplankton,  
in Shelikof Strait, Alaska:  
Data from Fisheries-Oceanography  
Coordinated Investigations (FOCI) Cruise  
in May 1987

May 1990

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Vertical Distribution of Zooplankton, including Ichthyoplankton,  
in Shelikof Strait, Alaska:  
Data from Fisheries-Oceanography Coordinated Investigations  
(FOCI) Cruise in May 1987

by

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May 1990

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## INTRODUCTION

The data in this report were collected during 1987 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 how it relates to the recruitment of walleye pollock, Theragra chalcogramma. Background studies, emphasizing areal distribution and seasonal development of zooplankton communities were conducted from March to October 1985 (Siefert et al. 1988a). Additional studies emphasizing interannual comparisons were conducted in 1986 and 1987 (Siefert and Incze 1989a,b). The vertical distribution and composition of zooplankton, including ichthyoplankton, during early May of 1986 were reported by Siefert et al. (1988b). We report here on the vertical distribution and composition of zooplankton, including ichthyoplankton, from a "patch" of pollock larvae located in the Shelikof Strait region in 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 3MF87 aboard the NOAA ship Miller Freeman from 18-29 May 1987 (Gray and Blood, in

prep.) Figure 1 shows the area of the Gulf of Alaska studied during the cruise and Figure 2 shows the site sampled for vertical distributions of zooplankton. Sampling was conducted in a "patch" of larval pollock, where larval numbers were consistently high and flow characteristics were perhaps less complex than elsewhere. Sampling continued for about 55 hours at this geographically fixed site (stations 72-79).

Samples were collected during daylight and darkness using a MOCNESS sampler (Wiebe et. al. 1976) equipped with 153  $\mu\text{m}$  mesh nets. A mechanical flowmeter was used to estimate the volume of water filtered by each net 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, 100-125 and 125-150 m. Samples were preserved in 5% buffered formalin:seawater.

Samples were sorted at the Polish Sorting Center in Szczecin, Poland and identifications made in Poland were verified by biologists at the Alaska Science Fisheries Center in Seattle. Zooplankton were sorted into taxonomic categories emphasizing the most abundant species, as well as those taxa of particular interest to recruitment studies of walleye pollock. These categories are listed 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 given in Table 2.

Ichthyoplankton were removed from the entire sample prior to sorting invertebrate zooplankton. All ichthyoplankton were identified and counted. After ichthyoplankton were removed from the sample the following procedures were used for enumerating remaining zooplankton. Organisms such as large shrimp and jellyfish were removed and noted. The sample was then split with a Folsom plankton splitter to obtain a subsample with about 100-200 organisms  $\geq 5$ mm in their maximum dimension, but splits were no smaller than 1/64 of the original sample. With a few exceptions (decapod larvae, euphausiid furciliae and larvaceans), these "large organisms" were removed from the sample, identified and tabulated. Decapod larvae, euphausiid furciliae and larvaceans were left in this subsample. Next, a smaller subsample of approximately 800-1000 organisms was examined for all remaining taxa.

## RESULTS

Sixty-four samples were analyzed from eight MOCNESS tows (eight depth intervals sampled per tow). 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  $10\text{m}^3$  (invertebrate zooplankton) and  $1000\text{m}^3$  (ichthyoplankton); and the percent of either the

invertebrates or ichthyoplankton that each taxon represents in the sample. In each appendix, samples are identified by station number, 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. The times (GMT) of sunrise and sunset determined for 57 N latitude and 156 W longitude were: 1349 sunrise and 0644 sunset on 19 May, and 1334 sunrise and 0658 sunset on 28 May. We did not spend the time to identify and record all species encountered in some of the invertebrate categories. However, notes were kept (Table 3) on the most abundant species found.

## DISCUSSION

Care must be taken in using these data for quantitative comparisons. Not all taxa were quantitatively retained by the 153  $\mu\text{m}$  mesh. The width of the widest opening in the net (the diagonal measure) is approximately 216  $\mu\text{m}$ , 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.; Metriididae 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 (i.e. cnidarian medusae and larvaceans). The sample splitting process also affects estimates of thecosomate pteropods because they do not stay suspended in the sample. Also, euphausiid adults and juveniles are probably underrepresented due to net avoidance.





## ACKNOWLEDGMENTS

We thank Shailer Cummings and Jeff Napp for their diligent work with the MOCNESS, and all FOCI participants for their help with collections and other cruise details. We also thank the officers and crew of the NOAA ship Miller Freeman for their efforts and the staff at the Plankton Sorting and Identification Center in Szczecin, Poland. We gratefully acknowledge Jay Clark for providing assistance with ichthyoplankton data; Wendy Carlson and Jim Peacock for graphics; and John Richards 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 153  $\mu$ m 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><math>\geq</math>5mm, &lt;5mm</u>
Chaetognatha	<u><math>\geq</math>20mm, &lt;20mm and <math>\geq</math>5mm, &lt;5mm</u>
Cirripedia	nauplius <5mm, cypris <5mm
Cladocera	<5mm
Cnidaria	medusa $\geq$ 5mm, medusa <5mm
Ctenophora	$\geq$ 5mm, <5mm
Cumacea	<u><math>\geq</math>5mm, &lt;5mm</u>
Echinodermata	<u><math>\geq</math>5mm, &lt;5mm, larva &lt;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; calytopis 3, 2, 1; damaged A&amp;J; nauplius/metanauplius</u>
<u>Euphausia pacifica</u>	<u>A&amp;J</u>
Foraminifera	<5mm
Gammaridea	<u><math>\geq</math>5mm, &lt;5mm</u>
Gastropoda	<5mm, veliger <5mm
Gymnosomata	<u><math>\geq</math>5mm, &lt;5mm</u>
Hyperiidia	<u><math>\geq</math>5mm, &lt;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.	<u>adult F, adult M, C5 F, C5 M, C4</u>
<u>Metridia pacifica</u>	<u>adult F, adult M, C5 F, C5 M, C4</u>
Metriididae	<u>C3, C2, C1</u>
Mysidacea	<u>≥5mm</u> , <5mm
Natantia	<u>larva, ≥5mm A&amp;J, &lt;5mm A&amp;J</u>
Nematoda	<u>≥5mm</u> , <5mm
<u>Neocalanus cristatus</u>	<u>adult F, adult M, C5, C4, C3, C2, C1</u>
<u>N. plumchrus</u>	<u>adult F, adult M, C5, C4, C3, C2, C1</u>
<u>Oithona</u> spp.	
Ostracoda	<5mm
Other Copepoda	nauplius, unidentified, <u>≥5mm</u> , <5mm and <u>≥2mm</u> , <2mm
Other zooplankton	<u>≥5mm</u> , <5mm
Polychaeta	<u>≥5mm</u> , <5mm
<u>Pseudocalanus</u> spp.	<u>adult F, adult M, C5 F, C5 M, C4 F,</u> <u>C4 M</u>
? <u>Pseudocalanus</u> spp.	<u>C3, C2, C1</u>
Radiolaria	<5mm
Siphonophora	<u>≥5mm</u> , <5mm
<u>Tessarabrachion oculatum</u>	<u>A&amp;J</u>
Thecosomata	<u>≥5mm</u> , <5mm
<u>Thysanoessa inermis</u>	<u>A&amp;J</u>
<u>T. inspinata</u>	<u>A&amp;J</u>
<u>T. longipes</u>	<u>A&amp;J</u>

Table 1. Continued

<u>Taxon</u>	<u>Size/Life History Stages*</u>
<u>T. raschii</u>	<u>A&amp;J</u>
<u>T. spinifera</u>	<u>A&amp;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

Table 2. Taxonomic categories and life history stages 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>Bathymaster</u> spp.	larva
Cyclopteridae	larva
disintegrated	larva
Gadidae	larva
<u>Gadus macrocephalus</u>	larva
<u>Hippoglossoides elassodon</u>	larva, egg
<u>Icelus</u> spp.	larva
<u>Lepidopsetta bilineata</u>	larva
<u>Lumpenus maculatus</u>	larva
<u>Lyconectes aleutensis</u>	larva
<u>Mallotus villosus</u>	larva
<u>Parophrys vetulus</u>	larva
<u>Platichthys stellatus</u>	larva
Pleuronectidae	larva, egg
<u>Poroclinus rothrocki</u>	larva
<u>Protomyctophum thompsoni</u>	larva
<u>Psettichthys</u> sp. type 2	larva
<u>Stenobranchius leucopsarus</u>	larva
<u>Theragra chalcogramma</u>	larva, egg
<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 during May 1987.

TAXON	COMPOSITION
<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 challengerii</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>Meterothrips</u> spp.
Natantia A&J	<u>Pandalus borealis</u>
<u>Oithona</u> spp.	<u>Oithona similis</u>
Other Copepoda $\geq 5$ mm	Euchaetidae
Other Copepoda $\geq 2$ 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>



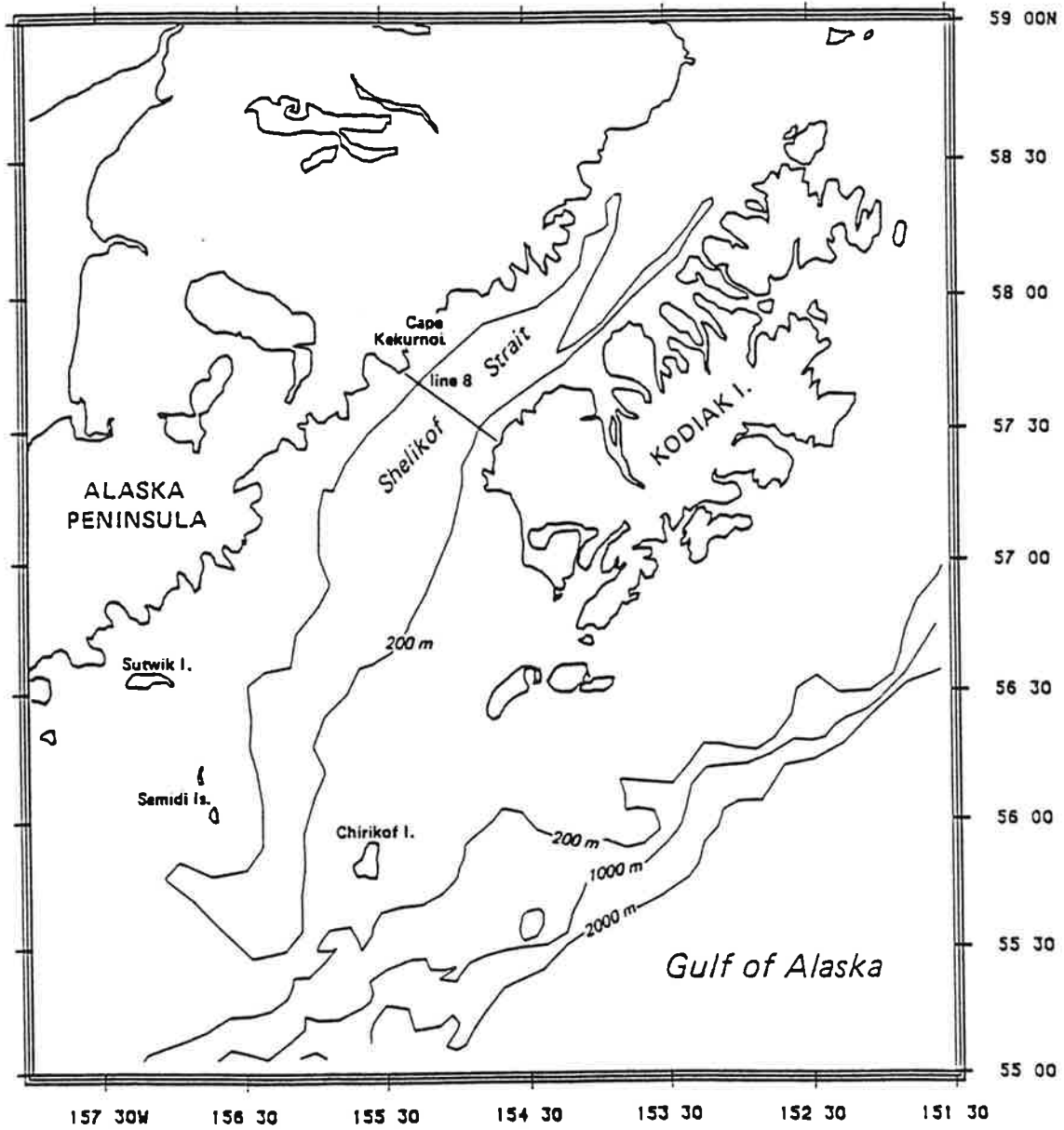


Figure 1. Geography and bathymetry of Shelikof Strait, northwestern Gulf of Alaska.

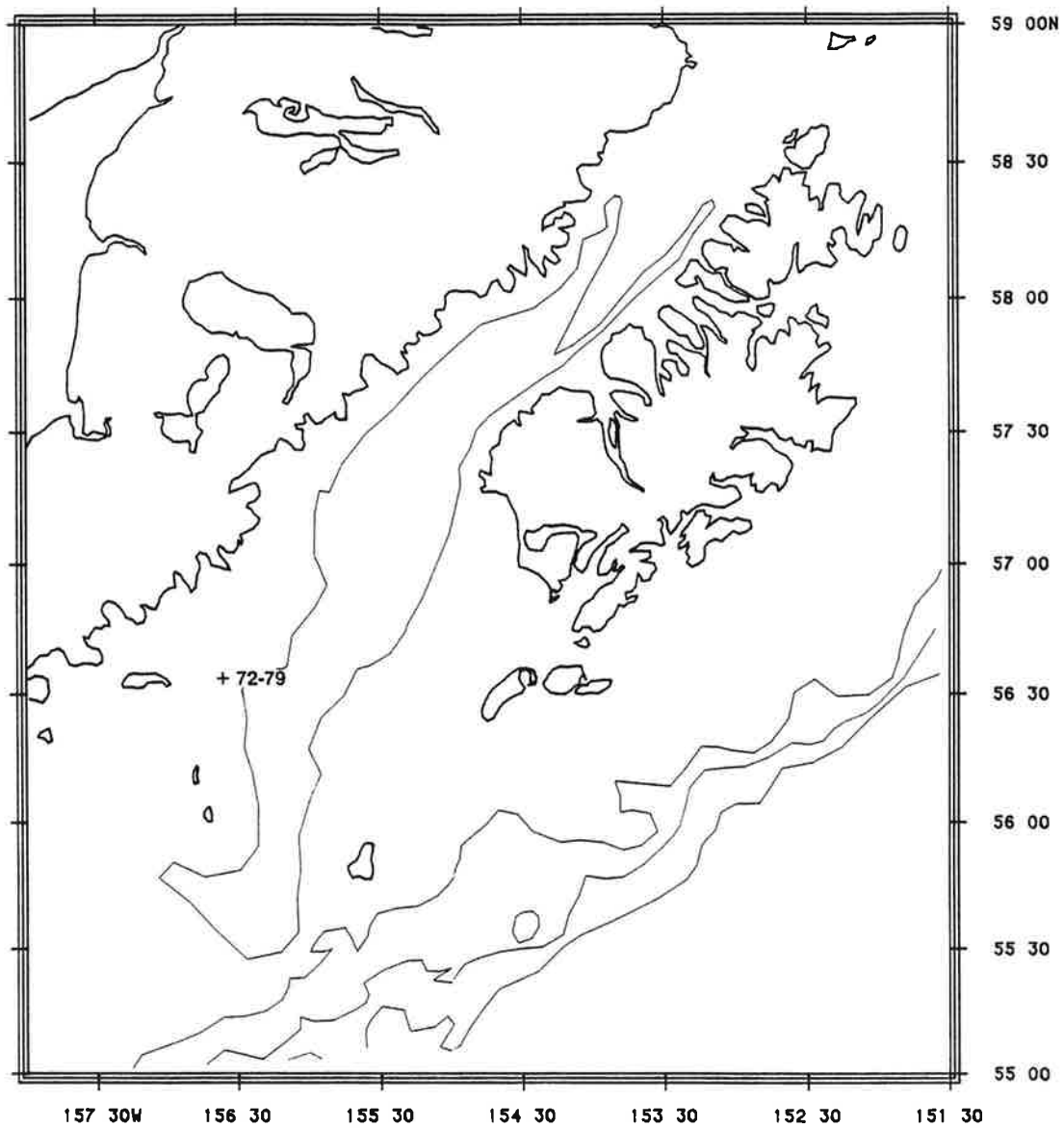


Figure 2. Stations sampled for zooplankton with MOCNESS, FOCI cruise 3MF87, 18-29 May 1987.



Appendix 1. Abundance of invertebrate zooplankton taxa at each station sampled with MOCNESS during FOCI cruise 3MF87 in Shelikof Strait, 18-29 May 1987.

STA. 072            56 32.5 N        156 32.8 W        23 May 87        15:47

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
201                    2 - 15                    50.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	136	1024.0	27853	27.8
Invertebrata - egg <5mm	98	1024.0	20070	20.0
Other Copepoda - nauplius	62	1024.0	12698	12.7
Larvacea	30	1024.0	6144	6.1
Acartia spp.	48	512.0	4915	4.9
?Pseudocalanus spp. C-2	23	1024.0	4710	4.7
Euphausiacea - nauplius	16	1024.0	3277	3.3
?Pseudocalanus spp. C-3	15	1024.0	3072	3.1
?Pseudocalanus spp. C-1	13	1024.0	2662	2.7
Pseudocalanus spp. - adult F	23	512.0	2355	2.4
Pseudocalanus spp. C-4 M	20	512.0	2048	2.0
Pseudocalanus spp. C-5 M	20	512.0	2048	2.0
Pseudocalanus spp. C-4 F	16	512.0	1638	1.6
Pseudocalanus spp. C-5 F	14	512.0	1434	1.4
Thecosomata <5mm	6	1024.0	1229	1.2
Echinodermata - larva <5mm	5	1024.0	1024	1.0
Pseudocalanus spp. - adult M	6	512.0	614	0.6
Other Copepoda <2mm	2	1024.0	410	0.4
Euphausiacea - calyptopis 2	20	56.9	228	0.2
Cnidaria - medusa <5mm	1	1024.0	205	0.2
Cirripedia - nauplius <5mm	1	1024.0	205	0.2
Brachyura - larva	1	1024.0	205	0.2
Metriididae C-3	1	1024.0	205	0.2
Euphausiacea - calyptopis 1	13	56.9	148	0.1
Chaetognatha 5-20mm	172	4.0	138	0.1
Calanus marshallae C-1	11	56.9	125	0.1
Euphausiacea - calyptopis 3	9	56.9	102	0.1
Calanus marshallae C-2	9	56.9	102	0.1
Calanus marshallae C-3	7	56.9	80	0.1
Euphausiacea - furcilia	33	7.0	46	< 0.1
Metridia pacifica - adult F	27	7.0	38	< 0.1
Neocalanus plumchrus C-5	20	7.0	28	< 0.1
Metridia pacifica C-5 F	14	7.0	20	< 0.1
Calanus marshallae C-4	12	7.0	17	< 0.1
Metridia pacifica - adult M	9	7.0	13	< 0.1
Metridia pacifica C-5 M	7	7.0	10	< 0.1
Cnidaria - medusa >5mm	9	4.0	7	< 0.1
Neocalanus plumchrus C-4	5	7.0	7	< 0.1
Metridia pacifica C-4	5	7.0	7	< 0.1
Calanus marshallae - adult M	3	7.0	4	< 0.1
Calanus marshallae C-5	1	7.0	1	< 0.1
Calanus pacificus C-5	1	7.0	1	< 0.1
Calanus pacificus - adult F	1	7.0	1	< 0.1
Calanus pacificus - adult M	1	7.0	1	< 0.1
Calanus marshallae - adult F	1	7.0	1	< 0.1
Eucalanus bungii - adult F	1	4.0	1	< 0.1
Neocalanus cristatus C-5	1	4.0	1	< 0.1

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100148	100.



STA. 072            56 32.5 N        156 32.8 W        23 May 87        15:47

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
201                    15 - 30                    66.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Other Copepoda - nauplius	299	512.0	23195	46.9
Oithona spp.	184	512.0	14274	28.9
Invertebrata - egg <5mm	44	512.0	3413	6.9
?Pseudocalanus spp. C-2	21	512.0	1629	3.3
Euphausiacea - nauplius	20	512.0	1552	3.1
?Pseudocalanus spp. C-1	15	512.0	1164	2.4
?Pseudocalanus spp. C-3	12	512.0	931	1.9
Larvacea	5	512.0	388	0.8
Pseudocalanus spp. C-5 M	42	56.9	362	0.7
Pseudocalanus spp. - adult F	41	56.9	353	0.7
Pseudocalanus spp. C-4 M	33	56.9	285	0.6
Pseudocalanus spp. C-4 F	31	56.9	267	0.5
Chaetognatha 5-20mm	392	4.0	238	0.5
Hyperiidia <5mm	3	512.0	233	0.5
Pseudocalanus spp. C-5 F	24	56.9	207	0.4
Calanus marshallae C-1	16	56.9	138	0.3
Pseudocalanus spp. - adult M	15	56.9	129	0.3
Calanus marshallae C-2	11	56.9	95	0.2
Gastropoda <5mm	1	512.0	78	0.2
Cirripectida - nauplius <5mm	1	512.0	78	0.2
Cirripectida - cypris <5mm	1	512.0	78	0.2
Polychaeta <5mm	1	512.0	78	0.2
Neocalanus plumchrus C-5	57	7.0	60	0.1
Calanus marshallae C-3	7	56.9	60	0.1
Calanus marshallae C-4	44	7.0	47	0.1
Euphausiacea - furcilia	27	7.0	29	0.1
Acartia spp.	24	7.0	25	0.1
Euphausiacea - calyptopis 1	12	7.0	13	< 0.1
Neocalanus plumchrus C-4	9	7.0	10	< 0.1
Calanus marshallae C-5	8	7.0	8	< 0.1
Euphausiacea - calyptopis 3	6	7.0	6	< 0.1
Euphausiacea - calyptopis 2	2	7.0	2	< 0.1
Metridia pacifica - adult F	2	7.0	2	< 0.1
Metridia pacifica - adult M	2	7.0	2	< 0.1
Metridia pacifica C-4	1	7.0	1	< 0.1
Calanus pacificus - adult F	1	7.0	1	< 0.1
Calanus pacificus - adult M	1	7.0	1	< 0.1
Calanus marshallae - adult F	1	7.0	1	< 0.1
Cnidaria - medusa >5mm	1	4.0	1	< 0.1
			49432	100.



STA. 072            56 32.5 N        156 32.8 W        23 May 87        15:47

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
201                    30 - 45                    85.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	180	512.0	10842	38.1
Other Copepoda - nauplius	73	512.0	4397	15.4
Invertebrata - egg <5mm	39	512.0	2349	8.2
Pseudocalanus spp. - adult F	33	256.0	994	3.5
Metriididae C-1	15	512.0	904	3.2
?Pseudocalanus spp. C-1	13	512.0	783	2.7
?Pseudocalanus spp. C-2	11	512.0	663	2.3
?Pseudocalanus spp. C-3	11	512.0	663	2.3
Pseudocalanus spp. - adult M	22	256.0	663	2.3
Pseudocalanus spp. C-5 F	22	256.0	663	2.3
Metriididae C-2	11	512.0	663	2.3
Other Copepoda <2mm	11	512.0	663	2.3
Pseudocalanus spp. C-4 F	20	256.0	602	2.1
Pseudocalanus spp. C-5 M	19	256.0	572	2.0
Pseudocalanus spp. C-4 M	17	256.0	512	1.8
Neocalanus plumchrus C-5	34	128.0	512	1.8
Chaetognatha 5-20mm	140	16.0	264	0.9
Thecosomata <5mm	4	512.0	241	0.8
Calanus marshallae C-4	30	64.0	226	0.8
Calanus marshallae C-3	14	128.0	211	0.7
Calanus marshallae C-2	13	128.0	196	0.7
Euphausiacea - nauplius	3	512.0	181	0.6
Larvacea	3	512.0	181	0.6
Calanus marshallae C-1	10	128.0	151	0.5
Chaetognatha <5mm	2	512.0	120	0.4
Polychaeta <5mm	2	512.0	120	0.4
Cirripedia - cypris <5mm	1	512.0	60	0.2
Calanus marshallae C-5	6	64.0	45	0.2
Neocalanus plumchrus C-4	3	21.3	8	< 0.1
Chaetognatha >20mm	3	16.0	6	< 0.1
Euphausiacea - calyptopis 1	2	21.3	5	< 0.1
Euphausiacea - calyptopis 3	2	21.3	5	< 0.1
Euphausiacea - furcilia	2	21.3	5	< 0.1
Thysanoessa inermis A&J	2	16.0	4	< 0.1
Metridia pacifica - adult F	1	21.3	3	< 0.1
Acartia spp.	1	21.3	3	< 0.1
Metridia pacifica C-4	1	21.3	3	< 0.1
Metridia pacifica - adult M	1	21.3	3	< 0.1
Eucalanus bungii C-5 F	1	16.0	2	< 0.1
			28482	100.

STA. 072            56 32.5 N        156 32.8 W        23 May 87        15:47

DEPTH            SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
201                    45 - 60                    112.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	118	512.0	5394	31.6
Other Copepoda - nauplius	53	512.0	2423	14.2
Pseudocalanus spp. - adult F	42	512.0	1920	11.3
Metriididae C-1	38	512.0	1737	10.2
Pseudocalanus spp. - adult M	25	512.0	1143	6.7
Metriididae C-2	19	512.0	869	5.1
Other Copepoda <2mm	18	512.0	823	4.8
Pseudocalanus spp. C-5 M	18	256.0	411	2.4
Metriididae C-3	8	512.0	366	2.1
Neocalanus plumchrus C-5	29	128.0	331	1.9
Pseudocalanus spp. C-5 F	11	256.0	251	1.5
Metridia pacifica C-4	34	64.0	194	1.1
Invertebrata - egg <5mm	4	512.0	183	1.1
Calanus marshallae C-3	31	64.0	177	1.0
Calanus marshallae C-4	28	64.0	160	0.9
Pseudocalanus spp. C-4 F	21	64.0	120	0.7
Pseudocalanus spp. C-4 M	18	64.0	103	0.6
Thecosomata <5mm	2	512.0	91	0.5
Metridia pacifica C-5 M	43	12.8	49	0.3
?Pseudocalanus spp. C-3	1	512.0	46	0.3
Larvacea	1	512.0	46	0.3
?Pseudocalanus spp. C-2	1	512.0	46	0.3
Cirripedia - cypris <5mm	1	512.0	46	0.3
Calanus marshallae C-2	7	64.0	40	0.2
Chaetognatha 5-20mm	144	2.0	26	0.2
Calanus marshallae C-5	4	64.0	23	0.1
Metridia pacifica - adult F	26	4.9	11	0.1
Neocalanus plumchrus C-4	20	4.9	9	0.1
Unidentified Calanoida C-2	1	64.0	6	< 0.1
Calanus marshallae C-1	1	64.0	6	< 0.1
Chaetognatha >20mm	19	2.0	3	< 0.1
Thysanoessa inermis A&J	19	2.0	3	< 0.1
Metridia pacifica C-5 F	2	12.8	2	< 0.1
Acartia spp.	4	4.9	2	< 0.1
Metridia pacifica - adult M	4	4.9	2	< 0.1
Neocalanus cristatus C-5	5	2.0	1	< 0.1
Euphausiacea - calyptopis 2	2	4.9	1	< 0.1
Euphausiacea - calyptopis 1	1	4.9	< 1	< 0.1
Euphausiacea - calyptopis 3	1	4.9	< 1	< 0.1
Thysanoessa spinifera A&J	2	2.0	< 1	< 0.1
Eucalanus bungii C-5 M	2	2.0	< 1	< 0.1
Neocalanus cristatus C-4	1	2.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	2.0	< 1	< 0.1
			17066	100.

STA. 072            56 32.5 N            156 32.8 W            23 May 87            15:47

DEPTH                    SAMPLING INTERVAL            VOLUME FILTERED            NET MESH  
201                      60 - 81                      138.0                      153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	92	512.0	3413	27.6
Metriididae C-1	48	512.0	1781	14.4
Pseudocalanus spp. - adult F	32	512.0	1187	9.6
Other Copepoda <2mm	28	512.0	1039	8.4
Pseudocalanus spp. - adult M	26	512.0	965	7.8
Other Copepoda - nauplius	22	512.0	816	6.6
Metriididae C-2	15	512.0	557	4.5
Metridia pacifica C-5 M	28	128.0	260	2.1
Metriididae C-3	6	512.0	223	1.8
Metridia pacifica C-4	43	64.0	199	1.6
Neocalanus plumchrus C-5	40	64.0	186	1.5
Larvacea	5	512.0	186	1.5
Pseudocalanus spp. C-5 F	17	128.0	158	1.3
Invertebrata <5mm	4	512.0	148	1.2
Invertebrata - egg <5mm	4	512.0	148	1.2
Metridia pacifica C-5 F	14	128.0	130	1.0
Calanus marshallae C-4	26	64.0	121	1.0
Pseudocalanus spp. C-5 M	13	128.0	121	1.0
Calanus marshallae C-3	24	64.0	111	0.9
Pseudocalanus spp. C-4 F	23	64.0	107	0.9
?Pseudocalanus spp. C-1	2	512.0	74	0.6
Metridia pacifica - adult F	59	12.8	55	0.4
Calanus marshallae C-5	11	64.0	51	0.4
Pseudocalanus spp. C-4 M	11	64.0	51	0.4
?Pseudocalanus spp. C-3	1	512.0	37	0.3
Chaetognatha <5mm	1	512.0	37	0.3
Hyperiidea <5mm	1	512.0	37	0.3
Thecosomata <5mm	1	512.0	37	0.3
Bivalvia <5mm	1	512.0	37	0.3
Anomura - larva	1	512.0	37	0.3
Calanus marshallae C-2	5	64.0	23	0.2
Chaetognatha 5-20mm	93	2.0	13	0.1
Calanus marshallae - adult F	2	64.0	9	0.1
Calanus marshallae - adult M	1	64.0	5	< 0.1
Unidentified Calanoida C-3	1	64.0	5	< 0.1
Neocalanus cristatus C-5	27	2.0	4	< 0.1
Metridia pacifica - adult M	4	12.8	4	< 0.1
Chaetognatha >20mm	23	2.0	3	< 0.1
Thysanoessa inermis A&J	21	2.0	3	< 0.1
Acartia spp.	3	12.8	3	< 0.1
Neocalanus plumchrus C-4	2	12.8	2	< 0.1
Euphausiacea - calyptopis 2	1	12.8	1	< 0.1
Euphausiacea - calyptopis 1	1	12.8	1	< 0.1
Neocalanus cristatus C-4	4	2.0	1	< 0.1
Thysanoessa spinifera A&J	3	2.0	< 1	< 0.1
Cnidaria - medusa >5mm	3	2.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	2.0	< 1	< 0.1

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12385      100.

STA. 072            56 32.5 N        156 32.8 W        23 May 87        15:47

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
201                    81 - 102                113.0                153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	73	128.0	827	19.9
Other Copepoda <2mm	56	128.0	634	15.3
Pseudocalanus spp. - adult F	54	128.0	612	14.7
Metriididae C-1	48	128.0	544	13.1
Pseudocalanus spp. - adult M	28	128.0	317	7.6
Other Copepoda - nauplius	22	128.0	249	6.0
Metridia pacifica - adult F	46	32.0	130	3.1
Metridia pacifica C-5 F	21	64.0	119	2.9
Metriididae C-3	10	128.0	113	2.7
Metridia pacifica C-5 M	20	64.0	113	2.7
Neocalanus plumchrus C-5	31	32.0	88	2.1
Metriididae C-2	6	128.0	68	1.6
Calanus marshallae C-4	22	32.0	62	1.5
Metridia pacifica C-4	41	16.0	58	1.4
Larvacea	3	128.0	34	0.8
Pseudocalanus spp. C-5 M	22	16.0	31	0.8
Pseudocalanus spp. C-5 F	19	16.0	27	0.6
Calanus marshallae C-3	41	5.3	19	0.5
Calanus marshallae C-5	6	32.0	17	0.4
Invertebrata - egg <5mm	1	128.0	11	0.3
Thecosomata <5mm	1	128.0	11	0.3
Other zooplankton <5mm	1	128.0	11	0.3
Chaetognatha 5-20mm	53	2.0	9	0.2
Calanus marshallae - adult F	3	32.0	8	0.2
Pseudocalanus spp. C-4 F	15	5.3	7	0.2
Calanus marshallae - adult M	2	32.0	6	0.1
Pseudocalanus spp. C-4 M	11	5.3	5	0.1
Neocalanus cristatus C-5	28	2.0	5	0.1
Metridia pacifica - adult M	1	32.0	3	0.1
Chaetognatha >20mm	11	2.0	2	< 0.1
Thysanoessa inermis A&J	9	2.0	2	< 0.1
Acartia spp.	3	5.3	1	< 0.1
Thysanoessa spinifera A&J	6	2.0	1	< 0.1
Neocalanus plumchrus C-4	2	5.3	1	< 0.1
Cnidaria - medusa >5mm	5	2.0	1	< 0.1
Neocalanus cristatus C-4	4	2.0	1	< 0.1
Calanus marshallae C-2	1	5.3	< 1	< 0.1
Euphausiacea - calyptopis 2	1	5.3	< 1	< 0.1
Unidentified Calanoida C-3	1	5.3	< 1	< 0.1
			4151	100.

STA. 072            56 32.5 N        156 32.8 W        23 May 87        15:47

DEPTH            SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
201                102 - 125                125.0                153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Metridia pacifica - adult F	83	128.0	850	16.7
Other Copepoda <2mm	78	128.0	799	15.7
Oithona spp.	73	128.0	748	14.7
Metriididae C-1	49	128.0	502	9.9
Pseudocalanus spp. - adult F	35	128.0	358	7.1
Other Copepoda - nauplius	30	128.0	307	6.1
Metridia pacifica C-4	18	128.0	184	3.6
Metriididae C-3	18	128.0	184	3.6
Metridia pacifica - adult M	18	128.0	184	3.6
Metriididae C-2	15	128.0	154	3.0
Metridia pacifica C-5 F	14	128.0	143	2.8
Pseudocalanus spp. - adult M	12	128.0	123	2.4
Metridia pacifica C-5 M	9	128.0	92	1.8
Neocalanus plumchrus C-5	34	25.6	70	1.4
Calanus marshallae - adult M	33	25.6	68	1.3
Larvacea	6	128.0	61	1.2
Calanus marshallae C-5	29	25.6	59	1.2
Invertebrata - egg <5mm	3	128.0	31	0.6
Calanus marshallae C-4	13	25.6	27	0.5
Calanus marshallae - adult F	9	25.6	18	0.4
Pseudocalanus spp. C-5 M	19	9.8	15	0.3
Neocalanus cristatus C-5	80	2.0	13	0.3
Gastropoda <5mm	1	128.0	10	0.2
Thecosomata <5mm	1	128.0	10	0.2
Cirripedia - nauplius <5mm	1	128.0	10	0.2
Siphonophora <5mm	1	128.0	10	0.2
Pseudocalanus spp. C-5 F	13	9.8	10	0.2
Calanus marshallae C-3	11	9.8	9	0.2
Chaetognatha 5-20mm	44	2.0	7	0.1
Thysanoessa spinifera A&J	20	2.0	3	0.1
Pseudocalanus spp. C-4 F	4	9.8	3	0.1
Neocalanus cristatus C-4	15	2.0	2	< 0.1
Euphausiacea - calyptopis 1	3	9.8	2	< 0.1
Pseudocalanus spp. C-4 M	2	9.8	2	< 0.1
Calanus marshallae C-2	2	9.8	2	< 0.1
Thysanoessa inermis A&J	8	2.0	1	< 0.1
Calanus pacificus C-5	1	9.8	1	< 0.1
Acartia spp.	1	9.8	1	< 0.1
Chaetognatha >20mm	3	2.0	< 1	< 0.1
			5074	100.

STA. 072            56 32.5 N        156 32.8 W        23 May 87        15:47

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
201                    125 - 150                144.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Metridia pacifica - adult F	66	256.0	1173	16.0
Other Copepoda - nauplius	49	256.0	871	11.9
Metridia pacifica C-5 F	44	256.0	782	10.7
Metridia pacifica - adult M	43	256.0	764	10.5
Oithona spp.	32	256.0	569	7.8
Metridia pacifica C-4	30	256.0	533	7.3
Other Copepoda <2mm	23	256.0	409	5.6
Metriididae C-1	20	256.0	356	4.9
Metridia pacifica C-5 M	18	256.0	320	4.4
Metriididae C-2	14	256.0	249	3.4
Neocalanus plumchrus C-5	64	51.2	228	3.1
Metriididae C-3	12	256.0	213	2.9
Pseudocalanus spp. - adult F	58	51.2	206	2.8
Thecosomata <5mm	8	256.0	142	1.9
Calanus marshallae C-5	24	51.2	85	1.2
Calanus marshallae - adult M	21	51.2	75	1.0
Larvacea	3	256.0	53	0.7
Pseudocalanus spp. - adult M	12	51.2	43	0.6
Pseudocalanus spp. C-5 F	47	12.2	40	0.5
?Pseudocalanus spp. C-1	2	256.0	36	0.5
Calanus marshallae - adult F	9	51.2	32	0.4
Neocalanus cristatus C-5	95	4.0	26	0.4
Other Copepoda 2-5mm	1	256.0	18	0.2
Gymnosomata <5mm	1	256.0	18	0.2
Hyperiididea <5mm	1	256.0	18	0.2
?Pseudocalanus spp. C-3	1	256.0	18	0.2
Pseudocalanus spp. C-5 M	18	12.2	15	0.2
Calanus marshallae C-4	2	51.2	7	0.1
Neocalanus cristatus C-4	14	4.0	4	0.1
Chaetognatha 5-20mm	13	4.0	4	< 0.1
Calanus pacificus C-5	3	12.2	3	< 0.1
Pseudocalanus spp. C-4 F	2	12.2	2	< 0.1
Thysanoessa spinifera A&J	4	4.0	1	< 0.1
Pseudocalanus spp. C-4 M	1	12.2	1	< 0.1
Gammaridea >5mm	2	4.0	1	< 0.1
			7313	100.

STA. 073            56 33.1 N            156 36.7 W            23 May 87            22:22

DEPTH                SAMPLING INTERVAL            VOLUME FILTERED            NET MESH  
179                    1 - 15                        52.0                        153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	267	1024.0	52578	48.2
Invertebrata - egg <5mm	64	1024.0	12603	11.5
Other Copepoda - nauplius	34	1024.0	6695	6.1
Pseudocalanus spp. - adult F	28	1024.0	5514	5.1
Euphausiacea - nauplius	21	1024.0	4135	3.8
Pseudocalanus spp. C-5 M	21	1024.0	4135	3.8
Pseudocalanus spp. C-4 M	20	1024.0	3938	3.6
Pseudocalanus spp. C-4 F	15	1024.0	2954	2.7
Pseudocalanus spp. C-5 F	14	1024.0	2757	2.5
Pseudocalanus spp. - adult M	11	1024.0	2166	2.0
Acartia spp.	52	204.8	2048	1.9
Larvacea	9	1024.0	1772	1.6
Thecosomata <5mm	8	1024.0	1575	1.4
Euphausiacea - calyptopis 1	40	204.8	1575	1.4
Neocalanus plumchrus C-5	36	204.8	1418	1.3
Euphausiacea - calyptopis 2	13	204.8	512	0.5
Calanus marshallae C-4	47	48.8	441	0.4
Chaetognatha 5-20mm	188	8.0	289	0.3
Euphausiacea - calyptopis 3	7	204.8	276	0.3
Calanus marshallae C-2	27	48.8	253	0.2
Gastropoda <5mm	1	1024.0	197	0.2
Polychaeta <5mm	1	1024.0	197	0.2
Cirripedia - nauplius <5mm	1	1024.0	197	0.2
Other zooplankton <5mm	1	1024.0	197	0.2
Neocalanus plumchrus C-4	20	48.8	188	0.2
Calanus marshallae C-1	16	48.8	150	0.1
Calanus marshallae C-3	13	48.8	122	0.1
Calanus marshallae C-5	11	48.8	103	0.1
Euphausiacea - furcilia	6	48.8	56	0.1
Metridia pacifica C-4	2	48.8	19	< 0.1
Metridia pacifica C-5 F	2	48.8	19	< 0.1
Metridia pacifica - adult M	2	48.8	19	< 0.1
Metridia pacifica C-5 M	2	48.8	19	< 0.1
Calanus marshallae - adult F	1	48.8	9	< 0.1
Unidentified Calanoida C-2	1	48.8	9	< 0.1
Metridia pacifica - adult F	1	48.8	9	< 0.1
Neocalanus plumchrus C-3	1	48.8	9	< 0.1
Cnidaria - medusa >5mm	2	8.0	3	< 0.1
Neocalanus cristatus C-5	1	8.0	2	< 0.1
			109162	100.



STA. 073            56 33.1 N        156 36.7 W        23 May 87        22:22

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
179                    15 - 30                    49.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	162	2048.0	67709	45.9
Other Copepoda - nauplius	63	2048.0	26331	17.9
?Pseudocalanus spp. C-2	23	2048.0	9613	6.5
?Pseudocalanus spp. C-1	19	2048.0	7941	5.4
Invertebrata - egg <5mm	14	2048.0	5851	4.0
Pseudocalanus spp. C-5 M	50	409.6	4180	2.8
Pseudocalanus spp. - adult F	46	409.6	3845	2.6
Pseudocalanus spp. C-4 M	31	409.6	2591	1.8
Euphausiacea - nauplius	5	2048.0	2090	1.4
?Pseudocalanus spp. C-3	5	2048.0	2090	1.4
Euphausiacea - calyptopis 1	24	409.6	2006	1.4
Pseudocalanus spp. C-5 F	21	409.6	1755	1.2
Pseudocalanus spp. C-4 F	20	409.6	1672	1.1
Gastropoda <5mm	3	2048.0	1254	0.9
Larvacea	2	2048.0	836	0.6
Polychaeta <5mm	2	2048.0	836	0.6
Euphausiacea - calyptopis 2	8	409.6	669	0.5
Neocalanus plumchrus C-5	73	38.6	575	0.4
Pseudocalanus spp. - adult M	6	409.6	502	0.3
Echinodermata <5mm	1	2048.0	418	0.3
Other zooplankton <5mm	1	2048.0	418	0.3
Other Copepoda <2mm	1	2048.0	418	0.3
Thecosomata <5mm	1	2048.0	418	0.3
Cirripedia - nauplius <5mm	1	2048.0	418	0.3
Chaetognatha <5mm	1	2048.0	418	0.3
Chaetognatha 5-20mm	243	8.0	397	0.3
Calanus marshallae C-1	19	97.5	378	0.3
Calanus marshallae C-3	18	97.5	358	0.2
Euphausiacea - calyptopis 3	4	409.6	334	0.2
Euphausiacea - furcilia	38	38.6	299	0.2
Acartia spp.	32	38.6	252	0.2
Calanus marshallae C-4	27	38.6	213	0.1
Calanus marshallae C-2	10	97.5	199	0.1
Calanus marshallae C-5	13	38.6	102	0.1
Neocalanus plumchrus C-4	5	38.6	39	< 0.1
Calanus pacificus C-5	1	38.6	8	< 0.1
Metridia pacifica C-5 F	1	38.6	8	< 0.1
Calanus marshallae - adult F	1	38.6	8	< 0.1
Cnidaria - medusa >5mm	1	8.0	2	< 0.1
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			147452	100.

STA. 073            56 33.1 N        156 36.7 W        23 May 87        22:22

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
179                    30 - 45                    53.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda - nauplius	338	512.0	32652	38.5
Oithona spp.	275	512.0	26566	31.3
?Pseudocalanus spp. C-1	44	512.0	4251	5.0
?Pseudocalanus spp. C-3	24	512.0	2318	2.7
Pseudocalanus spp. C-4 M	23	512.0	2222	2.6
?Pseudocalanus spp. C-2	23	512.0	2222	2.6
Pseudocalanus spp. - adult F	48	170.7	1546	1.8
Invertebrata - egg <5mm	16	512.0	1546	1.8
Pseudocalanus spp. C-4 F	16	512.0	1546	1.8
Pseudocalanus spp. C-5 M	16	512.0	1546	1.8
Pseudocalanus spp. C-5 F	14	512.0	1352	1.6
Other Copepoda <2mm	8	512.0	773	0.9
Calanus marshallae C-3	23	170.7	741	0.9
Metriididae C-1	7	512.0	676	0.8
Calanus marshallae C-1	18	170.7	580	0.7
Pseudocalanus spp. - adult M	15	170.7	483	0.6
Thecosomata <5mm	5	512.0	483	0.6
Neocalanus plumchrus C-5	95	26.9	482	0.6
Larvacea	4	512.0	386	0.5
Chaetognatha <5mm	4	512.0	386	0.5
Calanus marshallae C-2	10	170.7	322	0.4
Polychaeta <5mm	3	512.0	290	0.3
Metriididae C-2	3	512.0	290	0.3
Euphausiacea - nauplius	3	512.0	290	0.3
Calanus marshallae C-4	43	26.9	218	0.3
Chaetognatha 5-20mm	191	4.0	144	0.2
Gastropoda <5mm	1	512.0	97	0.1
Cirripedia - cypris <5mm	1	512.0	97	0.1
Anomura - larva	1	512.0	97	0.1
Calanus marshallae C-5	14	26.9	71	0.1
Neocalanus plumchrus C-4	6	26.9	30	< 0.1
Euphausiacea - furcilia	2	26.9	10	< 0.1
Euphausiacea - calytopis 1	1	26.9	5	< 0.1
Calanus marshallae - adult M	1	26.9	5	< 0.1
Eucalanus bungii C-2	1	26.9	5	< 0.1
Euphausiacea - calytopis 3	1	26.9	5	< 0.1
Euphausiacea - calytopis 2	1	26.9	5	< 0.1
Metridia pacifica - adult M	1	26.9	5	< 0.1
Acartia spp.	1	26.9	5	< 0.1
Metridia pacifica C-4	1	26.9	5	< 0.1
Calanus marshallae - adult F	1	26.9	5	< 0.1
Metridia pacifica C-5 F	1	26.9	5	< 0.1
Cnidaria - medusa >5mm	2	4.0	2	< 0.1
Eucalanus bungii - adult F	1	4.0	1	< 0.1
Neocalanus cristatus C-5	1	4.0	1	< 0.1
			84766	100.

STA. 073            56 33.1 N            156 36.7 W            23 May 87            22:22

DEPTH                    SAMPLING INTERVAL            VOLUME FILTERED            NET MESH  
179                        45 - 60                        37.0                        153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	95	512.0	13146	28.7
Invertebrata - egg <5mm	50	512.0	6919	15.1
Other Copepoda - nauplius	46	512.0	6365	13.9
Other Copepoda <2mm	13	512.0	1799	3.9
Neocalanus plumchrus C-5	75	85.3	1729	3.8
Pseudocalanus spp. C-5 M	24	256.0	1661	3.6
Pseudocalanus spp. C-4 M	22	256.0	1522	3.3
Pseudocalanus spp. - adult F	20	256.0	1384	3.0
Metriididae C-2	9	512.0	1245	2.7
Metriididae C-1	9	512.0	1245	2.7
Pseudocalanus spp. C-4 F	15	256.0	1038	2.3
Pseudocalanus spp. - adult M	13	256.0	899	2.0
Pseudocalanus spp. C-5 F	13	256.0	899	2.0
?Pseudocalanus spp. C-3	5	512.0	692	1.5
Calanus marshallae C-3	30	85.3	692	1.5
Thaliacea <5mm	4	512.0	554	1.2
Cladocera <5mm	4	512.0	554	1.2
Larvacea	4	512.0	554	1.2
Calanus marshallae C-4	21	85.3	484	1.1
Calanus marshallae C-2	19	85.3	438	1.0
Calanus marshallae C-5	14	85.3	323	0.7
?Pseudocalanus spp. C-2	2	512.0	277	0.6
?Pseudocalanus spp. C-1	2	512.0	277	0.6
Chaetognatha 5-20mm	111	8.0	240	0.5
Calanus marshallae C-1	10	85.3	231	0.5
Thecosomata <5mm	1	512.0	138	0.3
Cirripedia - cypris <5mm	1	512.0	138	0.3
Hyperiidea <5mm	1	512.0	138	0.3
Chaetognatha <5mm	1	512.0	138	0.3
Calanus marshallae - adult F	2	85.3	46	0.1
Neocalanus plumchrus C-4	10	13.5	36	0.1
Acartia spp.	9	13.5	33	0.1
Euphausiacea - furcilia	2	13.5	7	< 0.1
Eucalanus bungii - adult F	2	8.0	4	< 0.1
Calanus pacificus - adult F	1	13.5	4	< 0.1
Calanus pacificus C-5	1	13.5	4	< 0.1
Cnidaria - medusa >5mm	1	8.0	2	< 0.1
			45855	100.

STA. 073            56 33.1 N        156 36.7 W        23 May 87        22:22

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
179                    60 - 80                    133.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	86	512.0	3311	25.0
Neocalanus plumchrus C-5	48	512.0	1848	14.0
Pseudocalanus spp. - adult F	35	512.0	1347	10.2
Other Copepoda <2mm	31	512.0	1193	9.0
Metriididae C-1	31	512.0	1193	9.0
Pseudocalanus spp. - adult M	18	512.0	693	5.2
Metriididae C-2	15	512.0	577	4.4
Pseudocalanus spp. C-5 M	25	256.0	481	3.6
Calanus marshallae C-4	18	256.0	346	2.6
Invertebrata - egg <5mm	8	512.0	308	2.3
Pseudocalanus spp. C-5 F	16	256.0	308	2.3
Other Copepoda - nauplius	7	512.0	269	2.0
Calanus marshallae C-5	12	256.0	231	1.7
Metridia pacifica C-4	30	85.3	192	1.5
Pseudocalanus spp. C-4 F	19	85.3	122	0.9
Foraminifera <5mm	3	512.0	115	0.9
Pseudocalanus spp. C-4 M	18	85.3	115	0.9
Calanus marshallae C-3	39	36.6	107	0.8
Metriididae C-3	2	512.0	77	0.6
Chaetognatha 5-20mm	92	8.0	55	0.4
Metridia pacifica C-5 M	14	36.6	39	0.3
Other Copepoda damaged	1	512.0	38	0.3
Natantia - larva	1	512.0	38	0.3
Euphausiacea - nauplius	1	512.0	38	0.3
?Pseudocalanus spp. C-3	1	512.0	38	0.3
Calanus marshallae - adult F	2	256.0	38	0.3
Thecosomata <5mm	1	512.0	38	0.3
Brachyura - larva	1	512.0	38	0.3
Calanus marshallae C-2	7	36.6	19	0.1
Metridia pacifica C-5 F	3	36.6	8	0.1
Metridia pacifica - adult F	3	36.6	8	0.1
Acartia spp.	1	36.6	3	< 0.1
Neocalanus cristatus C-5	4	8.0	2	< 0.1
Thysanoessa inermis A&J	2	8.0	1	< 0.1
Chaetognatha >20mm	1	8.0	1	< 0.1
Cnidaria - medusa >5mm	1	8.0	1	< 0.1
Thysanoessa inspinata A&J	1	8.0	1	< 0.1
			13244	100.

STA. 073            56 33.1 N            156 36.7 W            23 May 87            22:22

DEPTH                    SAMPLING INTERVAL            VOLUME FILTERED            NET MESH  
179                            80 - 99                            109.0                            153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	78	256.0	1832	25.5
Oithona spp.	42	256.0	986	13.7
Neocalanus plumchrus C-5	37	256.0	869	12.1
Metriididae C-1	35	256.0	822	11.4
Pseudocalanus spp. - adult F	31	256.0	728	10.1
Pseudocalanus spp. - adult M	20	256.0	470	6.5
Metridia pacifica C-5 M	61	51.2	287	4.0
Metridia pacifica C-4	53	51.2	249	3.5
Metriididae C-2	10	256.0	235	3.3
Other Copepoda - nauplius	10	256.0	235	3.3
Calanus marshallae C-4	15	51.2	70	1.0
Metriididae C-3	3	256.0	70	1.0
Calanus marshallae C-5	11	51.2	52	0.7
Cirripedia - nauplius <5mm	2	256.0	47	0.7
Metridia pacifica C-5 F	10	51.2	47	0.7
Calanus marshallae - adult F	7	51.2	33	0.5
Pseudocalanus spp. C-5 M	91	3.7	31	0.4
Pseudocalanus spp. C-5 F	75	3.7	25	0.4
Cirripedia - cypris <5mm	1	256.0	23	0.3
Euphausiacea - nauplius	1	256.0	23	0.3
Metridia pacifica - adult F	31	3.7	11	0.1
Calanus marshallae C-3	25	3.7	8	0.1
Chaetognatha 5-20mm	39	2.0	7	0.1
Neocalanus cristatus C-5	34	2.0	6	0.1
Pseudocalanus spp. C-4 F	6	3.7	2	< 0.1
Pseudocalanus spp. C-4 M	5	3.7	2	< 0.1
Thysanoessa inermis A&J	8	2.0	1	< 0.1
Chaetognatha >20mm	7	2.0	1	< 0.1
Thysanoessa spinifera A&J	5	2.0	1	< 0.1
Cnidaria - medusa >5mm	4	2.0	1	< 0.1
Calanus pacificus C-5	2	3.7	1	< 0.1
Metridia pacifica - adult M	2	3.7	1	< 0.1
Neocalanus cristatus C-4	3	2.0	1	< 0.1
Eucalanus bungii - adult F	2	2.0	< 1	< 0.1
Neocalanus plumchrus C-4	1	3.7	< 1	< 0.1
Calanus marshallae C-2	1	3.7	< 1	< 0.1
Acartia spp.	1	3.7	< 1	< 0.1
Eucalanus bungii - adult M	1	2.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	2.0	< 1	< 0.1
			7179	100.

STA. 073            56 33.1 N        156 36.7 W        23 May 87            22:22

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
179                    99 - 125                109.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Other Copepoda <2mm	71	128.0	834	22.0
Oithona spp.	50	128.0	587	15.5
Neocalanus plumchrus C-5	33	128.0	388	10.2
Metridia pacifica C-5 M	26	128.0	305	8.1
Pseudocalanus spp. - adult M	23	128.0	270	7.1
Pseudocalanus spp. - adult F	23	128.0	270	7.1
Metriididae C-1	23	128.0	270	7.1
Metriididae C-2	12	128.0	141	3.7
Other Copepoda - nauplius	9	128.0	106	2.8
Metridia pacifica C-5 F	8	128.0	94	2.5
Metridia pacifica C-4	37	25.6	87	2.3
Metridia pacifica - adult F	34	25.6	80	2.1
Calanus marshallae C-5	23	25.6	54	1.4
Larvacea	4	128.0	47	1.2
Calanus marshallae C-4	19	25.6	45	1.2
Metriididae C-3	2	128.0	23	0.6
Invertebrata - egg <5mm	2	128.0	23	0.6
Calanus marshallae - adult F	8	25.6	19	0.5
Neocalanus cristatus C-5	50	4.0	18	0.5
Calanus marshallae - adult M	7	25.6	16	0.4
Metridia pacifica - adult M	7	25.6	16	0.4
Echinodermata <5mm	1	128.0	12	0.3
Other Copepoda damaged	1	128.0	12	0.3
Hyperiididae <5mm	1	128.0	12	0.3
?Pseudocalanus spp. C-3	1	128.0	12	0.3
Chaetognatha 5-20mm	31	4.0	11	0.3
Pseudocalanus spp. C-5 M	17	6.1	10	0.3
Pseudocalanus spp. C-5 F	12	6.1	7	0.2
Pseudocalanus spp. C-4 F	8	6.1	4	0.1
Neocalanus cristatus C-4	11	4.0	4	0.1
Chaetognatha >20mm	9	4.0	3	0.1
Calanus marshallae C-3	5	6.1	3	0.1
Pseudocalanus spp. C-4 M	5	6.1	3	0.1
Calanus pacificus C-5	2	6.1	1	< 0.1
Thysanoessa spinifera A&J	2	4.0	1	< 0.1
Acartia spp.	1	6.1	1	< 0.1
Thysanoessa inermis A&J	1	4.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	4.0	< 1	< 0.1
			3789	100.



STA. 073            56 33.1 N        156 36.7 W        23 May 87            22:22

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
179                    125 - 150                95.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Other Copepoda - nauplius	75	256.0	2021	17.5
Other Copepoda <2mm	58	256.0	1563	13.5
Metridia pacifica - adult M	53	256.0	1428	12.3
Metriididae C-1	34	256.0	916	7.9
Oithona spp.	33	256.0	889	7.7
Metridia pacifica - adult F	30	256.0	808	7.0
Metridia pacifica C-5 F	29	256.0	781	6.8
Neocalanus plumchrus C-5	37	128.0	499	4.3
Metridia pacifica C-5 M	16	256.0	431	3.7
Metridia pacifica C-4	31	128.0	418	3.6
Pseudocalanus spp. - adult F	27	128.0	364	3.1
Metriididae C-2	12	256.0	323	2.8
Metriididae C-3	10	256.0	269	2.3
Calanus marshallae C-5	8	128.0	108	0.9
Calanus marshallae - adult F	8	128.0	108	0.9
Calanus marshallae C-4	8	128.0	108	0.9
Calanus marshallae - adult M	7	128.0	94	0.8
Thecosomata <5mm	3	256.0	81	0.7
Pseudocalanus spp. - adult M	5	128.0	67	0.6
Invertebrata - egg <5mm	2	256.0	54	0.5
?Pseudocalanus spp. C-3	2	256.0	54	0.5
Ostracoda <5mm	1	256.0	27	0.2
?Pseudocalanus spp. C-2	1	256.0	27	0.2
Polychaeta <5mm	1	256.0	27	0.2
Pseudocalanus spp. C-5 M	29	7.5	23	0.2
Pseudocalanus spp. C-5 F	25	7.5	20	0.2
Neocalanus cristatus C-5	32	4.0	13	0.1
Neocalanus cristatus C-4	24	4.0	10	0.1
Pseudocalanus spp. C-4 F	10	7.5	8	0.1
Chaetognatha 5-20mm	17	4.0	7	0.1
Pseudocalanus spp. C-4 M	8	7.5	6	0.1
Thysanoessa spinifera A&J	15	4.0	6	0.1
Calanus pacificus C-5	6	7.5	5	< 0.1
Cnidaria - medusa >5mm	4	4.0	2	< 0.1
Chaetognatha >20mm	3	4.0	1	< 0.1
Siphonophora >5mm	2	4.0	1	< 0.1
Thysanoessa inermis A&J	2	4.0	1	< 0.1
Hyperiidia >5mm	2	4.0	1	< 0.1
Acartia spp.	1	7.5	1	< 0.1
Eucalanus bungii C-5 F	1	4.0	< 1	< 0.1
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			11571	100.





STA. 074            56 32.5 N            156 35.7 W            24 May 87            6:36

DEPTH                SAMPLING INTERVAL            VOLUME FILTERED            NET MESH  
179                    0 - 15                        8.0                        150

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	513	32.0	20446	31.1
Invertebrata - egg <5mm	228	32.0	9087	13.8
Other Copepoda - nauplius	107	32.0	4265	6.5
Pseudocalanus spp. - adult F	106	32.0	4225	6.4
Larvacea	88	32.0	3507	5.3
Acartia spp.	86	32.0	3428	5.2
?Pseudocalanus spp. C-2	70	32.0	2790	4.2
?Pseudocalanus spp. C-3	57	32.0	2272	3.5
?Pseudocalanus spp. C-1	51	32.0	2033	3.1
Pseudocalanus spp. C-5 M	44	32.0	1754	2.7
Pseudocalanus spp. C-5 F	37	32.0	1475	2.2
Pseudocalanus spp. C-4 F	34	32.0	1355	2.1
Euphausiacea - nauplius	34	32.0	1355	2.1
Pseudocalanus spp. C-4 M	30	32.0	1196	1.8
Neocalanus plumchrus C-5	81	10.7	1079	1.6
Pseudocalanus spp. - adult M	23	32.0	917	1.4
Thecosomata <5mm	17	32.0	678	1.0
Echinodermata - larva <5mm	12	32.0	478	0.7
Euphausiacea - calyptopis 2	12	32.0	478	0.7
Euphausiacea - furcilia	27	10.7	360	0.5
Cirripedia - cypris <5mm	9	32.0	359	0.5
Euphausiacea - calyptopis 1	6	32.0	239	0.4
Chaetognatha 5-20mm	176	1.0	219	0.3
Calanus marshallae C-2	15	10.7	200	0.3
Calanus marshallae C-4	14	10.7	187	0.3
Calanus marshallae C-5	12	10.7	160	0.2
Calanus marshallae C-1	10	10.7	133	0.2
Polychaeta <5mm	3	32.0	120	0.2
Other Copepoda <2mm	3	32.0	120	0.2
Calanus marshallae C-3	6	10.7	80	0.1
Cnidaria - medusa <5mm	2	32.0	80	0.1
Foraminifera <5mm	2	32.0	80	0.1
Chaetognatha <5mm	2	32.0	80	0.1
Euphausiacea - calyptopis 3	2	32.0	80	0.1
Cirripedia - nauplius <5mm	2	32.0	80	0.1
Brachyura - larva	4	10.7	53	0.1
Calanus marshallae - adult M	3	10.7	40	0.1
Calanus marshallae - adult F	3	10.7	40	0.1
Other zooplankton <5mm	1	32.0	40	0.1
Neocalanus plumchrus C-4	2	10.7	27	< 0.1
Natantia - larva	1	10.7	13	< 0.1
Anomura - larva	1	10.7	13	< 0.1
Metriididae C-3	1	10.7	13	< 0.1
Calanus pacificus - adult M	1	10.7	13	< 0.1
Cnidaria - medusa >5mm	4	1.0	5	< 0.1
Neocalanus cristatus C-5	1	1.0	1	< 0.1
			65650	100.

\* This depth interval was sampled by a 20cm Bongo with 150  $\mu$ m mesh after MOCNESS failed to sample properly there.

STA. 074            56 32.5 N        156 35.7 W        24 May 87            5:07

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
179                    16 - 31                    82.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	332	256.0	10365	33.7
Pseudocalanus spp. - adult F	151	256.0	4714	15.3
Pseudocalanus spp. C-5 M	50	256.0	1561	5.1
Pseudocalanus spp. C-5 F	46	256.0	1436	4.7
Other Copepoda - nauplius	38	256.0	1186	3.9
Pseudocalanus spp. - adult M	36	256.0	1124	3.7
?Pseudocalanus spp. C-3	32	256.0	999	3.2
Pseudocalanus spp. C-4 M	30	256.0	937	3.0
?Pseudocalanus spp. C-1	30	256.0	937	3.0
Neocalanus plumchrus C-5	24	256.0	749	2.4
Euphausiacea - nauplius	24	256.0	749	2.4
Other Copepoda damaged	20	256.0	624	2.0
?Pseudocalanus spp. C-2	16	256.0	500	1.6
Invertebrata - egg <5mm	14	256.0	437	1.4
Larvacea	12	256.0	375	1.2
Pseudocalanus spp. C-4 F	11	256.0	343	1.1
Metriididae C-1	11	256.0	343	1.1
Metridia pacifica - adult M	9	256.0	281	0.9
Acartia spp.	9	256.0	281	0.9
Calanus marshallae C-3	8	256.0	250	0.8
Metridia pacifica C-5 M	7	256.0	219	0.7
Calanus marshallae C-2	7	256.0	219	0.7
Gastropoda <5mm	6	256.0	187	0.6
Calanus marshallae C-5	5	256.0	156	0.5
Calanus marshallae - adult M	5	256.0	156	0.5
Metridia pacifica - adult F	5	256.0	156	0.5
Calanus marshallae - adult F	5	256.0	156	0.5
Chaetognatha 5-20mm	154	8.0	150	0.5
Metriididae C-3	4	256.0	125	0.4
Neocalanus plumchrus - adult F	3	256.0	94	0.3
Metriididae C-2	3	256.0	94	0.3
Metridia pacifica C-5 F	3	256.0	94	0.3
Calanus marshallae C-4	2	256.0	62	0.2
Polychaeta <5mm	2	256.0	62	0.2
Metridia pacifica C-4	2	256.0	62	0.2
Thecosomata <5mm	2	256.0	62	0.2
Hyperiidea <5mm	2	256.0	62	0.2
Chaetognatha >20mm	37	8.0	36	0.1
Echinodermata - larva <5mm	1	256.0	31	0.1
Euphausiacea - calyptopis 2	1	256.0	31	0.1
Anomura - larva	1	256.0	31	0.1
Calanus pacificus - adult M	1	256.0	31	0.1
Euphausiacea - furcilia	1	256.0	31	0.1
Euphausiacea - calyptopis 3	1	256.0	31	0.1
Neocalanus plumchrus C-4	1	256.0	31	0.1
Euphausiacea - calyptopis 1	1	256.0	31	0.1
Siphonophora <5mm	1	256.0	31	0.1
Natantia - larva	1	256.0	31	0.1

Other Copepoda <2mm	1	256.0	31	0.1
Chaetognatha <5mm	1	256.0	31	0.1
Neocalanus cristatus C-5	11	8.0	11	< 0.1
Cnidaria - medusa >5mm	5	8.0	5	< 0.1
Thysanoessa inermis A&J	2	8.0	2	< 0.1
Eucalanus bungii - adult F	2	8.0	2	< 0.1
Eucalanus bungii C-5 F	1	8.0	1	< 0.1
Eucalanus bungii C-5 M	1	8.0	1	< 0.1
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		30740	100.	

STA. 074            56 32.5 N        156 35.7 W        24 May 87        5:07

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
179                    31 - 46                    116.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	673	256.0	14852	43.5
Other Copepoda - nauplius	172	256.0	3796	11.1
Neocalanus plumchrus C-5	79	256.0	1743	5.1
Metriididae C-1	76	256.0	1677	4.9
Other Copepoda damaged	52	256.0	1148	3.4
?Pseudocalanus spp. C-3	49	256.0	1081	3.2
Pseudocalanus spp. C-5 M	41	256.0	905	2.7
?Pseudocalanus spp. C-2	40	256.0	883	2.6
Pseudocalanus spp. - adult F	40	256.0	883	2.6
Metriididae C-2	31	256.0	684	2.0
?Pseudocalanus spp. C-1	30	256.0	662	1.9
Pseudocalanus spp. C-4 M	30	256.0	662	1.9
Invertebrata - egg <5mm	29	256.0	640	1.9
Pseudocalanus spp. C-5 F	28	256.0	618	1.8
Pseudocalanus spp. - adult M	25	256.0	552	1.6
Calanus marshallae C-2	22	256.0	486	1.4
Pseudocalanus spp. C-4 F	19	256.0	419	1.2
Calanus marshallae C-3	17	256.0	375	1.1
Calanus marshallae C-4	16	256.0	353	1.0
Metriididae C-3	10	256.0	221	0.6
Gastropoda <5mm	9	256.0	199	0.6
Other Copepoda <2mm	9	256.0	199	0.6
Euphausiacea - nauplius	9	256.0	199	0.6
Calanus marshallae C-5	8	256.0	177	0.5
Thecosomata <5mm	6	256.0	132	0.4
Larvacea	5	256.0	110	0.3
Calanus marshallae C-1	4	256.0	88	0.3
Calanus marshallae - adult F	4	256.0	88	0.3
Metridia pacifica C-4	3	256.0	66	0.2
Neocalanus plumchrus C-4	3	256.0	66	0.2
Chaetognatha 5-20mm	172	4.0	59	0.2
Polychaeta <5mm	2	256.0	44	0.1
Metridia pacifica C-5 M	1	256.0	22	0.1
Acartia spp.	1	256.0	22	0.1
Metridia pacifica - adult M	1	256.0	22	0.1
Neocalanus cristatus C-5	23	4.0	8	< 0.1
Cnidaria - medusa >5mm	3	4.0	1	< 0.1
Chaetognatha >20mm	2	4.0	1	< 0.1
Eucalanus bungii - adult F	2	4.0	1	< 0.1
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			34144	100.

STA. 074            56 32.5 N        156 35.7 W        24 May 87            5:07

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
179                    46 - 60                    87.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	261	256.0	7680	18.5
Neocalanus plumchrus C-5	200	256.0	5885	14.2
Metriididae C-1	151	256.0	4443	10.7
Pseudocalanus spp. - adult F	118	256.0	3472	8.4
Pseudocalanus spp. - adult M	82	256.0	2413	5.8
Metriididae C-2	80	256.0	2354	5.7
Pseudocalanus spp. C-5 M	68	256.0	2001	4.8
Pseudocalanus spp. C-5 F	65	256.0	1913	4.6
Other Copepoda - nauplius	57	256.0	1677	4.0
Calanus marshallae C-4	53	256.0	1560	3.8
Pseudocalanus spp. C-4 F	31	256.0	912	2.2
Calanus marshallae C-3	30	256.0	883	2.1
?Pseudocalanus spp. C-3	27	256.0	794	1.9
Metriididae C-3	25	256.0	736	1.8
Other Copepoda <2mm	21	256.0	618	1.5
Pseudocalanus spp. C-4 M	21	256.0	618	1.5
Calanus marshallae C-5	21	256.0	618	1.5
Other Copepoda damaged	17	256.0	500	1.2
Invertebrata - egg <5mm	16	256.0	471	1.1
?Pseudocalanus spp. C-2	9	256.0	265	0.6
Metridia pacifica C-4	9	256.0	265	0.6
Calanus marshallae C-2	8	256.0	235	0.6
Chaetognatha 5-20mm	189	8.0	174	0.4
Calanus marshallae - adult F	5	256.0	147	0.4
Larvacea	3	256.0	88	0.2
Metridia pacifica - adult F	3	256.0	88	0.2
Thecosomata <5mm	3	256.0	88	0.2
Calanus marshallae - adult M	2	256.0	59	0.1
Acartia spp.	2	256.0	59	0.1
Metridia pacifica C-5 M	2	256.0	59	0.1
?Pseudocalanus spp. C-1	2	256.0	59	0.1
Natantia - larva	2	256.0	59	0.1
Metridia pacifica C-5 F	2	256.0	59	0.1
Gastropoda <5mm	2	256.0	59	0.1
Neocalanus cristatus C-5	35	8.0	32	0.1
Invertebrata <5mm	1	256.0	29	0.1
Brachyura - larva	1	256.0	29	0.1
Neocalanus plumchrus C-4	1	256.0	29	0.1
Siphonophora <5mm	1	256.0	29	0.1
Polychaeta <5mm	1	256.0	29	0.1
Chaetognatha >20mm	6	8.0	6	< 0.1
Thysanoessa inermis A&J	2	8.0	2	< 0.1
Neocalanus cristatus C-4	2	8.0	2	< 0.1
Eucalanus bungii - adult F	1	8.0	1	< 0.1
Eucalanus bungii C-5 M	1	8.0	1	< 0.1
			41501	100.

STA. 074            56 32.5 N        156 35.7 W        24 May 87            5:07

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
179                    60 - 81                    127.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	101	512.0	4072	22.8
Metriididae C-1	51	512.0	2056	11.5
Pseudocalanus spp. - adult F	50	512.0	2016	11.3
Neocalanus plumchrus C-5	31	512.0	1250	7.0
Pseudocalanus spp. - adult M	29	512.0	1169	6.5
Other Copepoda <2mm	21	512.0	847	4.7
Other Copepoda - nauplius	20	512.0	806	4.5
Calanus marshallae C-5	17	512.0	685	3.8
Calanus marshallae C-4	15	512.0	605	3.4
Metridia pacifica C-5 M	39	170.7	524	2.9
Metridia pacifica - adult F	38	170.7	511	2.9
Pseudocalanus spp. C-5 M	33	170.7	444	2.5
Metridia pacifica C-4	29	170.7	390	2.2
Pseudocalanus spp. C-5 F	26	170.7	349	2.0
Calanus marshallae C-3	25	170.7	336	1.9
?Pseudocalanus spp. C-3	8	512.0	323	1.8
Metriididae C-2	7	512.0	282	1.6
Metriididae C-3	6	512.0	242	1.4
Pseudocalanus spp. C-4 F	16	170.7	215	1.2
Pseudocalanus spp. C-4 M	14	170.7	188	1.1
Metridia pacifica C-5 F	9	170.7	121	0.7
Chaetognatha 5-20mm	96	16.0	121	0.7
Invertebrata - egg <5mm	2	512.0	81	0.5
Larvacea	2	512.0	81	0.5
Calanus marshallae C-2	5	170.7	67	0.4
Calanus marshallae - adult F	1	512.0	40	0.2
Neocalanus cristatus C-5	23	16.0	29	0.2
Calanus marshallae C-1	1	170.7	13	0.1
Chaetognatha >20mm	6	16.0	8	< 0.1
Thysanoessa spinifera A&J	4	16.0	5	< 0.1
Neocalanus cristatus C-4	1	16.0	1	< 0.1
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			17876	100.

STA. 074            56 32.5 N            156 35.7 W            24 May 87            5:07

DEPTH                SAMPLING INTERVAL            VOLUME FILTERED            NET MESH  
179                    81 - 101                    131.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Metridia pacifica - adult F	55	256.0	1075	16.2
Metriididae C-1	41	256.0	801	12.1
Oithona spp.	40	256.0	782	11.8
Pseudocalanus spp. - adult M	38	256.0	743	11.2
Pseudocalanus spp. - adult F	36	256.0	704	10.6
Other Copepoda <2mm	23	256.0	449	6.8
Metriididae C-2	18	256.0	352	5.3
Metriididae C-3	15	256.0	293	4.4
Metridia pacifica C-5 F	59	51.2	231	3.5
Metridia pacifica C-5 M	46	51.2	180	2.7
Metridia pacifica C-4	45	51.2	176	2.6
Larvacea	8	256.0	156	2.4
Pseudocalanus spp. C-5 M	29	51.2	113	1.7
Calanus marshallae C-5	24	51.2	94	1.4
Calanus marshallae C-4	23	51.2	90	1.4
Other Copepoda - nauplius	3	256.0	59	0.9
Neocalanus plumchrus C-5	58	12.2	54	0.8
Pseudocalanus spp. C-5 F	13	51.2	51	0.8
Calanus marshallae - adult F	13	51.2	51	0.8
Invertebrata - egg <5mm	2	256.0	39	0.6
Calanus marshallae - adult M	8	51.2	31	0.5
Calanus marshallae C-3	28	12.2	26	0.4
Anomura - larva	1	256.0	20	0.3
Hyperiididae <5mm	1	256.0	20	0.3
Neocalanus cristatus C-5	41	4.0	13	0.2
Chaetognatha 5-20mm	38	4.0	12	0.2
Metridia pacifica C-4	2	51.2	8	0.1
Pseudocalanus spp. C-4 M	8	12.2	7	0.1
Pseudocalanus spp. C-4 F	5	12.2	5	0.1
Thysanoessa spinifera A&J	12	4.0	4	0.1
Neocalanus plumchrus C-4	3	12.2	3	< 0.1
Cnidaria - medusa >5mm	8	4.0	2	< 0.1
Unidentified Calanoida C-3	2	12.2	2	< 0.1
Euphausia pacifica A&J	4	4.0	1	< 0.1
Acartia spp.	1	12.2	1	< 0.1
Calanus marshallae C-2	1	12.2	1	< 0.1
Thysanoessa inermis A&J	2	4.0	1	< 0.1
Chaetognatha >20mm	2	4.0	1	< 0.1
Neocalanus cristatus C-4	1	4.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	4.0	< 1	< 0.1
			6647	100.



STA. 074            56 32.5 N        156 35.7 W        24 May 87            5:07

DEPTH                    SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
179                      101 - 124                110.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Metridia pacifica - adult F	75	128.0	873	19.6
Other Copepoda <2mm	74	128.0	861	19.4
Oithona spp.	37	128.0	431	9.7
Pseudocalanus spp. - adult F	35	128.0	407	9.2
Pseudocalanus spp. - adult M	25	128.0	291	6.5
Metriididae C-1	22	128.0	256	5.8
Metriididae C-3	20	128.0	233	5.2
Metriididae C-2	16	128.0	186	4.2
Other Copepoda - nauplius	13	128.0	151	3.4
Metridia spp. - adult F	12	128.0	140	3.1
Metridia pacifica - adult M	10	128.0	116	2.6
Metridia pacifica C-5 F	46	25.6	107	2.4
Metridia pacifica C-4	20	25.6	47	1.0
Calanus marshallae - adult M	18	25.6	42	0.9
Calanus marshallae C-5	18	25.6	42	0.9
Neocalanus plumchrus C-5	34	9.8	30	0.7
Metridia pacifica C-5 M	12	25.6	28	0.6
Calanus marshallae C-4	12	25.6	28	0.6
Pseudocalanus spp. C-5 M	29	9.8	26	0.6
Metridia spp. C-4	11	25.6	26	0.6
Pseudocalanus spp. C-5 F	22	9.8	20	0.4
?Pseudocalanus spp. C-2	1	128.0	12	0.3
?Pseudocalanus spp. C-3	1	128.0	12	0.3
Euphausiacea - nauplius	1	128.0	12	0.3
Polychaeta <5mm	1	128.0	12	0.3
Echinodermata <5mm	1	128.0	12	0.3
Calanus marshallae - adult F	5	25.6	12	0.3
Neocalanus cristatus C-5	63	2.0	11	0.3
Chaetognatha 5-20mm	40	2.0	7	0.2
Pseudocalanus spp. C-4 F	8	9.8	7	0.2
Pseudocalanus spp. C-4 M	7	9.8	6	0.1
Neocalanus cristatus C-4	11	2.0	2	< 0.1
Calanus marshallae C-3	2	9.8	2	< 0.1
Calanus marshallae C-2	2	9.8	2	< 0.1
Chaetognatha >20mm	3	2.0	1	< 0.1
Thysanoessa inermis A&J	2	2.0	< 1	< 0.1
Cnidaria - medusa >5mm	2	2.0	< 1	< 0.1
Hyperiidea >5mm	1	2.0	< 1	< 0.1
Thysanoessa spinifera A&J	1	2.0	< 1	< 0.1
			4448	100.

STA. 074            56 32.5 N        156 35.7 W        24 May 87        5:07

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
179                    124 - 150                116.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Metridia pacifica - adult M	77	128.0	850	15.0
Other Copepoda <2mm	65	128.0	717	12.6
Metridia pacifica - adult F	63	128.0	695	12.2
Other Copepoda - nauplius	61	128.0	673	11.9
Oithona spp.	45	128.0	497	8.7
Metriididae C-1	41	128.0	452	8.0
Pseudocalanus spp. - adult F	28	128.0	309	5.4
Metridia pacifica C-5 F	17	128.0	188	3.3
Neocalanus plumchrus C-5	48	42.7	177	3.1
Metridia pacifica C-5 M	14	128.0	154	2.7
Metriididae C-2	14	128.0	154	2.7
Metridia pacifica C-4	37	42.7	136	2.4
Metriididae C-3	10	128.0	110	1.9
Metridia spp. - adult F	8	128.0	88	1.6
Calanus marshallae - adult M	21	42.7	77	1.4
Pseudocalanus spp. - adult M	7	128.0	77	1.4
Calanus marshallae C-5	18	42.7	66	1.2
Invertebrata - egg <5mm	4	128.0	44	0.8
Polychaeta <5mm	4	128.0	44	0.8
Mysidacea <5mm	2	128.0	22	0.4
Neocalanus cristatus C-5	59	4.0	20	0.4
Pseudocalanus spp. C-5 M	26	6.7	15	0.3
Metridia spp. C-4	3	42.7	11	0.2
Calanus marshallae C-4	3	42.7	11	0.2
?Pseudocalanus spp. C-3	1	128.0	11	0.2
Thecosomata <5mm	1	128.0	11	0.2
Cirripectida - nauplius <5mm	1	128.0	11	0.2
?Pseudocalanus spp. C-2	1	128.0	11	0.2
Pseudocalanus spp. C-5 F	19	6.7	11	0.2
Chaetognatha 5-20mm	28	4.0	10	0.2
Neocalanus cristatus C-4	23	4.0	8	0.1
Calanus marshallae - adult F	2	42.7	7	0.1
Pseudocalanus spp. C-4 F	6	6.7	3	0.1
Mysidacea >5mm	4	4.0	1	< 0.1
Other Copepoda >5mm	2	4.0	1	< 0.1
Hyperiidia >5mm	2	4.0	1	< 0.1
Pseudocalanus spp. C-4 M	1	6.7	1	< 0.1
Thysanoessa spinifera A&J	1	4.0	< 1	< 0.1
Gymnosomata >5mm	1	4.0	< 1	< 0.1
Chaetognatha >20mm	1	4.0	< 1	< 0.1
			5678	100.

STA. 075            56 33.5 N        156 32.6 W        24 May 87        10:19

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
195                    2 - 15                    72.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	335	1024.0	47644	33.7
Acartia spp.	121	1024.0	17209	12.2
Other Copepoda - nauplius	99	1024.0	14080	10.0
Invertebrata - egg <5mm	82	1024.0	11662	8.3
?Pseudocalanus spp. C-1	63	1024.0	8960	6.3
?Pseudocalanus spp. C-2	38	1024.0	5404	3.8
Metridia pacifica - adult F	37	1024.0	5262	3.7
?Pseudocalanus spp. C-3	35	1024.0	4978	3.5
Pseudocalanus spp. - adult F	26	1024.0	3698	2.6
Larvacea	18	1024.0	2560	1.8
Euphausiacea - nauplius	18	1024.0	2560	1.8
Pseudocalanus spp. C-5 M	13	1024.0	1849	1.3
Other Copepoda damaged	12	1024.0	1707	1.2
Pseudocalanus spp. C-5 F	10	1024.0	1422	1.0
Pseudocalanus spp. C-4 F	10	1024.0	1422	1.0
Pseudocalanus spp. C-4 M	9	1024.0	1280	0.9
Pseudocalanus spp. - adult M	8	1024.0	1138	0.8
Other Copepoda <2mm	6	1024.0	853	0.6
Metriididae C-2	6	1024.0	853	0.6
Neocalanus plumchrus C-5	5	1024.0	711	0.5
Chaetognatha 5-20mm	265	16.0	589	0.4
Calanus marshallae C-5	4	1024.0	569	0.4
Metridia pacifica C-5 M	3	1024.0	427	0.3
Metriididae C-3	3	1024.0	427	0.3
Thecosomata <5mm	3	1024.0	427	0.3
Metridia pacifica C-4	3	1024.0	427	0.3
Polychaeta <5mm	3	1024.0	427	0.3
Metriididae C-1	2	1024.0	284	0.2
Chaetognatha <5mm	2	1024.0	284	0.2
Euphausiacea - furcilia	2	1024.0	284	0.2
Unidentified Calanoida C-2	2	1024.0	284	0.2
Cirripedia - cypris <5mm	1	1024.0	142	0.1
Calanus marshallae - adult M	1	1024.0	142	0.1
Metridia pacifica C-5 F	1	1024.0	142	0.1
Unidentified Calanoida C-1	1	1024.0	142	0.1
Calanus marshallae - adult F	1	1024.0	142	0.1
Hyperiidia <5mm	1	1024.0	142	0.1
Gastropoda <5mm	1	1024.0	142	0.1
Siphonophora <5mm	1	1024.0	142	0.1
Echinodermata - larva <5mm	1	1024.0	142	0.1
Calanus marshallae C-4	1	1024.0	142	0.1
Thysanoessa spinifera A&J	52	16.0	116	0.1
Thysanoessa inermis A&J	20	16.0	44	< 0.1
Neocalanus cristatus C-5	12	16.0	27	< 0.1
Cnidaria - medusa >5mm	4	16.0	9	< 0.1
Chaetognatha >20mm	1	16.0	2	< 0.1
Hyperiidia >5mm	1	16.0	2	< 0.1

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141304      100.



STA. 075            56 33.5 N            156 32.6 W            24 May 87            10:19

DEPTH                SAMPLING INTERVAL            VOLUME FILTERED            NET MESH  
195                    15 - 30                    54.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Other Copepoda - nauplius	394	512.0	37357	35.0
Oithona spp.	374	512.0	35461	33.2
Euphausiacea - nauplius	107	512.0	10145	9.5
?Pseudocalanus spp. C-1	39	512.0	3698	3.5
?Pseudocalanus spp. C-2	29	512.0	2750	2.6
?Pseudocalanus spp. C-3	28	512.0	2655	2.5
Neocalanus plumchrus C-5	17	512.0	1612	1.5
Pseudocalanus spp. - adult F	14	512.0	1327	1.2
Pseudocalanus spp. C-5 M	13	512.0	1233	1.2
Other Copepoda damaged	13	512.0	1233	1.2
Metridia pacifica - adult F	13	512.0	1233	1.2
Larvacea	10	512.0	948	0.9
Pseudocalanus spp. - adult M	10	512.0	948	0.9
Acartia spp.	6	512.0	569	0.5
Pseudocalanus spp. C-4 M	6	512.0	569	0.5
Metridia pacifica C-5 F	5	512.0	474	0.4
Pseudocalanus spp. C-4 F	5	512.0	474	0.4
Calanus marshallae C-4	5	512.0	474	0.4
Other Copepoda <2mm	5	512.0	474	0.4
Calanus marshallae C-5	4	512.0	379	0.4
Pseudocalanus spp. C-5 F	4	512.0	379	0.4
Chaetognatha 5-20mm	234	8.0	347	0.3
Polychaeta <5mm	3	512.0	284	0.3
Thecosomata <5mm	2	512.0	190	0.2
Euphausiacea - furcilia	2	512.0	190	0.2
Calanus marshallae C-3	2	512.0	190	0.2
Euphausiacea - calyptopis 1	2	512.0	190	0.2
Metridia pacifica C-5 M	1	512.0	95	0.1
Metridia spp. C-4	1	512.0	95	0.1
Euphausiacea - calyptopis 2	1	512.0	95	0.1
Natantia - larva	1	512.0	95	0.1
Ostracoda <5mm	1	512.0	95	0.1
Gastropoda <5mm	1	512.0	95	0.1
Calanus marshallae - adult F	1	512.0	95	0.1
Metridia pacifica C-4	1	512.0	95	0.1
Chaetognatha <5mm	1	512.0	95	0.1
Thysanoessa spinifera A&J	40	8.0	59	0.1
Neocalanus cristatus C-5	32	8.0	47	< 0.1
Thysanoessa inermis A&J	8	8.0	12	< 0.1
Chaetognatha >20mm	4	8.0	6	< 0.1
Cnidaria - medusa >5mm	4	8.0	6	< 0.1
Hyperiidia >5mm	1	8.0	1	< 0.1
Eucalanus bungii C-5 F	1	8.0	1	< 0.1
Eucalanus bungii C-5 M	1	8.0	1	< 0.1
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			106769	100.

STA. 075            56 33.5 N        156 32.6 W        24 May 87        10:19

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
195                    30 - 47                    98.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	369	256.0	9639	32.6
Pseudocalanus spp. - adult F	98	256.0	2560	8.7
Neocalanus plumchrus C-5	67	256.0	1750	5.9
Metridia pacifica - adult F	54	256.0	1411	4.8
Invertebrata - egg <5mm	44	256.0	1149	3.9
Metriididae C-2	42	256.0	1097	3.7
Pseudocalanus spp. - adult M	38	256.0	993	3.4
Pseudocalanus spp. C-5 M	31	256.0	810	2.7
Pseudocalanus spp. C-5 F	28	256.0	731	2.5
Other Copepoda damaged	28	256.0	731	2.5
Other Copepoda - nauplius	28	256.0	731	2.5
?Pseudocalanus spp. C-3	27	256.0	705	2.4
Metriididae C-3	23	256.0	601	2.0
Calanus marshallae C-3	21	256.0	549	1.9
Pseudocalanus spp. C-4 M	20	256.0	522	1.8
Pseudocalanus spp. C-4 F	20	256.0	522	1.8
Metriididae C-1	20	256.0	522	1.8
Calanus marshallae C-4	19	256.0	496	1.7
Calanus marshallae C-5	18	256.0	470	1.6
Thecosomata <5mm	17	256.0	444	1.5
?Pseudocalanus spp. C-2	16	256.0	418	1.4
Euphausiacea - furcilia	14	256.0	366	1.2
Metridia pacifica C-5 F	10	256.0	261	0.9
Calanus marshallae C-2	10	256.0	261	0.9
Metridia pacifica C-4	7	256.0	183	0.6
Calanus marshallae C-1	6	256.0	157	0.5
Calanus marshallae - adult F	6	256.0	157	0.5
Cirripedia - cypris <5mm	6	256.0	157	0.5
Metridia pacifica C-5 M	5	256.0	131	0.4
Metridia pacifica - adult M	4	256.0	104	0.4
Metridia spp. - adult F	4	256.0	104	0.4
Calanus marshallae - adult M	4	256.0	104	0.4
Gastropoda <5mm	4	256.0	104	0.4
Other Copepoda <2mm	4	256.0	104	0.4
Chaetognatha 5-20mm	181	4.0	74	0.3
Euphausiacea - nauplius	2	256.0	52	0.2
Metridia spp. C-4	2	256.0	52	0.2
Chaetognatha <5mm	2	256.0	52	0.2
Euphausiacea - calyptopis 3	2	256.0	52	0.2
Other zooplankton <5mm	1	256.0	26	0.1
Euphausiacea - calyptopis 2	1	256.0	26	0.1
Cirripedia - nauplius <5mm	1	256.0	26	0.1
Natantia - larva	1	256.0	26	0.1
?Pseudocalanus spp. C-1	1	256.0	26	0.1
Brachyura - larva	1	256.0	26	0.1
Neocalanus cristatus C-5	36	4.0	15	< 0.1
Thysanoessa spinifera A&J	33	4.0	13	< 0.1
Chaetognatha >20mm	10	4.0	4	< 0.1

Thysanoessa inermis A&J	6	4.0	2	< 0.1
Neocalanus cristatus C-4	3	4.0	1	< 0.1
Other Copepoda >5mm	2	4.0	1	< 0.1
Euphausiacea A&J damaged	1	4.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	4.0	< 1	< 0.1
Eucalanus bungii - adult M	1	4.0	< 1	< 0.1
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			29526	100.



STA. 075            56 33.5 N        156 32.6 W        24 May 87        10:19

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
195                    47 - 60                    34.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	636	32.0	5986	39.6
Pseudocalanus spp. - adult F	202	32.0	1901	12.6
Invertebrata - egg <5mm	108	32.0	1016	6.7
Metriididae C-2	104	32.0	979	6.5
Pseudocalanus spp. - adult M	100	32.0	941	6.2
Metriididae C-1	93	32.0	875	5.8
Euphausiacea - nauplius	58	32.0	546	3.6
Pseudocalanus spp. C-5 M	26	32.0	245	1.6
Thecosomata <5mm	23	32.0	216	1.4
Pseudocalanus spp. C-5 F	22	32.0	207	1.4
Metriididae C-3	21	32.0	198	1.3
Metridia pacifica - adult F	17	32.0	160	1.1
Pseudocalanus spp. C-4 F	15	32.0	141	0.9
Metridia pacifica C-5 F	14	32.0	132	0.9
Other Copepoda damaged	14	32.0	132	0.9
Calanus marshallae C-4	14	32.0	132	0.9
Cirripedia - nauplius <5mm	14	32.0	132	0.9
Other Copepoda <2mm	14	32.0	132	0.9
?Pseudocalanus spp. C-3	10	32.0	94	0.6
Calanus marshallae C-3	9	32.0	85	0.6
Calanus marshallae C-5	9	32.0	85	0.6
Larvacea	8	32.0	75	0.5
Pseudocalanus spp. C-4 M	8	32.0	75	0.5
Neocalanus plumchrus C-5	8	32.0	75	0.5
Metridia pacifica C-4	6	32.0	56	0.4
Cirripedia - cypris <5mm	5	32.0	47	0.3
Cnidaria - medusa <5mm	5	32.0	47	0.3
Calanus marshallae - adult F	5	32.0	47	0.3
?Pseudocalanus spp. C-1	5	32.0	47	0.3
Metridia pacifica C-5 M	5	32.0	47	0.3
Chaetognatha 5-20mm	136	1.0	40	0.3
Calanus marshallae - adult M	3	32.0	28	0.2
Echinodermata - larva <5mm	3	32.0	28	0.2
Gastropoda <5mm	2	32.0	19	0.1
Euphausiacea - furcilia	2	32.0	19	0.1
Acartia spp.	2	32.0	19	0.1
Brachyura - larva	2	32.0	19	0.1
Chaetognatha <5mm	2	32.0	19	0.1
Polychaeta <5mm	2	32.0	19	0.1
Natantia - larva	1	32.0	9	0.1
?Pseudocalanus spp. C-2	1	32.0	9	0.1
Calanus marshallae C-2	1	32.0	9	0.1
Mysidacea <5mm	1	32.0	9	0.1
Metridia pacifica - adult M	1	32.0	9	0.1
Thysanoessa spinifera A&J	9	1.0	3	< 0.1
Neocalanus cristatus C-5	9	1.0	3	< 0.1
Thysanoessa inermis A&J	4	1.0	1	< 0.1
Decapoda (Mollusca) >5mm	3	1.0	1	< 0.1

Chaetognatha >20mm  
 Polychaeta >5mm  
 Hyperidae >5mm  
 Cnidaria - medusa >5mm  
 Neocalanus cristatus C-4  
 Gammaridea >5mm

1	1.0	1	< 0.1
1	1.0	> 1	< 0.1
1	1.0	> 1	< 0.1
1	1.0	> 1	< 0.1
1	1.0	> 1	< 0.1
1	1.0	> 1	< 0.1
1	1.0	> 1	< 0.1
3	1.0	1	< 0.1

15118

100.

STA. 075            56 33.5 N        156 32.6 W        24 May 87        10:19

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
195                    60 - 80                    56.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	482	32.0	2754	36.1
Pseudocalanus spp. - adult F	222	32.0	1269	16.6
Metriididae C-1	131	32.0	749	9.8
Pseudocalanus spp. - adult M	93	32.0	531	7.0
Metriididae C-2	74	32.0	423	5.5
Metriididae C-3	43	32.0	246	3.2
Other Copepoda - nauplius	39	32.0	223	2.9
Other Copepoda <2mm	38	32.0	217	2.8
Foraminifera <5mm	22	32.0	126	1.6
Pseudocalanus spp. C-5 M	17	32.0	97	1.3
Metridia pacifica - adult F	16	32.0	91	1.2
Pseudocalanus spp. C-5 F	15	32.0	86	1.1
Invertebrata - egg <5mm	13	32.0	74	1.0
Metridia pacifica C-4	12	32.0	69	0.9
Pseudocalanus spp. C-4 F	11	32.0	63	0.8
Metridia pacifica C-5 M	10	32.0	57	0.7
Thecosomata <5mm	9	32.0	51	0.7
Calanus marshallae C-4	9	32.0	51	0.7
Neocalanus plumchrus C-5	8	32.0	46	0.6
Metridia pacifica C-5 F	7	32.0	40	0.5
?Pseudocalanus spp. C-3	7	32.0	40	0.5
Calanus marshallae - adult M	7	32.0	40	0.5
Calanus marshallae C-5	6	32.0	34	0.4
Chaetognatha 5-20mm	191	1.0	34	0.4
Calanus marshallae - adult F	5	32.0	29	0.4
Pseudocalanus spp. C-4 M	4	32.0	23	0.3
?Pseudocalanus spp. C-1	4	32.0	23	0.3
Brachyura - larva	3	32.0	17	0.2
?Pseudocalanus spp. C-2	3	32.0	17	0.2
Calanus marshallae C-3	3	32.0	17	0.2
Cirripedia - cypris <5mm	3	32.0	17	0.2
Polychaeta <5mm	2	32.0	11	0.1
Acartia spp.	1	32.0	6	0.1
Metridia spp. C-4	1	32.0	6	0.1
Unidentified Calanoida C-3	1	32.0	6	0.1
Euphausiacea - calytopis 3	1	32.0	6	0.1
Euphausiacea - furcilia	1	32.0	6	0.1
Siphonophora <5mm	1	32.0	6	0.1
Cirripedia - nauplius <5mm	1	32.0	6	0.1
Echinodermata - larva <5mm	1	32.0	6	0.1
Chaetognatha <5mm	1	32.0	6	0.1
Metridia pacifica - adult M	1	32.0	6	0.1
Neocalanus cristatus C-5	9	1.0	2	< 0.1
Thysanoessa spinifera A&J	9	1.0	2	< 0.1
Chaetognatha >20mm	5	1.0	1	< 0.1
Thysanoessa inermis A&J	4	1.0	1	< 0.1
Mysidacea >5mm	3	1.0	1	< 0.1
Gammaridea >5mm	2	1.0	< 1	< 0.1

Eucalanus bungii - adult M	2	1.0	< 1	< 0.1
Neocalanus cristatus C-4	2	1.0	< 1	< 0.1
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			7629	100.

STA. 075            56 33.5 N        156 32.6 W        24 May 87        10:19

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
195                    80 - 101                103.0                153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	290	128.0	3604	28.4
Pseudocalanus spp. - adult F	183	128.0	2274	18.0
Other Copepoda - nauplius	80	128.0	994	7.8
Metriididae C-2	79	128.0	982	7.7
Metriididae C-1	77	128.0	957	7.6
Pseudocalanus spp. - adult M	59	128.0	733	5.8
Metriididae C-3	41	128.0	510	4.0
Other Copepoda <2mm	33	128.0	410	3.2
Neocalanus plumchrus C-5	21	128.0	261	2.1
Metridia pacifica C-4	21	128.0	261	2.1
Metridia pacifica C-5 F	16	128.0	199	1.6
Pseudocalanus spp. C-5 F	13	128.0	162	1.3
Pseudocalanus spp. C-5 M	12	128.0	149	1.2
Metridia pacifica C-5 M	10	128.0	124	1.0
Calanus marshallae C-4	9	128.0	112	0.9
Calanus marshallae C-5	8	128.0	99	0.8
Pseudocalanus spp. C-4 F	8	128.0	99	0.8
Invertebrata - egg <5mm	8	128.0	99	0.8
Metridia pacifica - adult F	7	128.0	87	0.7
Other Copepoda damaged	6	128.0	75	0.6
Calanus marshallae C-3	4	128.0	50	0.4
?Pseudocalanus spp. C-3	4	128.0	50	0.4
Chaetognatha 5-20mm	195	2.0	38	0.3
Brachyura - larva	3	128.0	37	0.3
Other Copepoda 2-5mm	3	128.0	37	0.3
Metridia spp. C-4	3	128.0	37	0.3
Cirripedia - nauplius <5mm	2	128.0	25	0.2
Calanus marshallae - adult M	2	128.0	25	0.2
Euphausiacea - nauplius	2	128.0	25	0.2
Thecosomata <5mm	2	128.0	25	0.2
Echinodermata - larva <5mm	2	128.0	25	0.2
Larvacea	2	128.0	25	0.2
Other zooplankton <5mm	1	128.0	12	0.1
Pseudocalanus spp. C-4 M	1	128.0	12	0.1
Calanus marshallae - adult F	1	128.0	12	0.1
Neocalanus plumchrus C-3	1	128.0	12	0.1
?Pseudocalanus spp. C-1	1	128.0	12	0.1
Chaetognatha <5mm	1	128.0	12	0.1
Mysidacea >5mm	7	2.0	1	< 0.1
Thysanoessa inermis A&J	6	2.0	1	< 0.1
Neocalanus cristatus C-4	4	2.0	1	< 0.1
Neocalanus cristatus C-5	4	2.0	1	< 0.1
Chaetognatha >20mm	2	2.0	< 1	< 0.1
Natantia A&J >5mm	1	2.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	2.0	< 1	< 0.1
			12669	100.

STA. 075            56 33.5 N        156 32.6 W        24 May 87        10:19

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
195                    101 - 125                217.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	211	256.0	2489	20.8
Neocalanus plumchrus C-5	159	256.0	1876	15.7
Pseudocalanus spp. - adult F	96	256.0	1133	9.5
Metridia pacifica C-5 M	54	256.0	637	5.3
Metriididae C-3	48	256.0	566	4.7
Metriididae C-2	40	256.0	472	3.9
Calanus marshallae C-4	36	256.0	425	3.5
Metridia pacifica C-5 F	35	256.0	413	3.4
Pseudocalanus spp. - adult M	34	256.0	401	3.3
Metridia pacifica C-4	32	256.0	378	3.2
Euphausiacea - nauplius	31	256.0	366	3.1
Pseudocalanus spp. C-5 F	26	256.0	307	2.6
Calanus marshallae C-5	22	256.0	260	2.2
Pseudocalanus spp. C-5 M	21	256.0	248	2.1
Metriididae C-1	20	256.0	236	2.0
Metridia pacifica - adult F	19	256.0	224	1.9
Calanus marshallae C-3	17	256.0	201	1.7
Other Copepoda damaged	16	256.0	189	1.6
Metridia spp. C-4	14	256.0	165	1.4
Metridia pacifica - adult M	13	256.0	153	1.3
Other Copepoda <2mm	12	256.0	142	1.2
?Pseudocalanus spp. C-3	8	256.0	94	0.8
Calanus marshallae - adult M	7	256.0	83	0.7
Neocalanus cristatus C-5	170	8.0	63	0.5
Pseudocalanus spp. C-4 F	5	256.0	59	0.5
Metridia spp. - adult F	5	256.0	59	0.5
Gastropoda <5mm	5	256.0	59	0.5
Pseudocalanus spp. C-4 M	4	256.0	47	0.4
?Pseudocalanus spp. C-1	4	256.0	47	0.4
Calanus marshallae C-2	3	256.0	35	0.3
Invertebrata - egg <5mm	3	256.0	35	0.3
Chaetognatha 5-20mm	65	8.0	24	0.2
Polychaeta <5mm	2	256.0	24	0.2
?Pseudocalanus spp. C-2	1	256.0	12	0.1
Neocalanus plumchrus C-4	1	256.0	12	0.1
Brachyura - larva	1	256.0	12	0.1
Cnidaria - medusa <5mm	1	256.0	12	0.1
Thecosomata <5mm	1	256.0	12	0.1
Foraminifera <5mm	1	256.0	12	0.1
Neocalanus cristatus C-4	6	8.0	2	< 0.1
Gammaridea >5mm	3	8.0	1	< 0.1
Chaetognatha >20mm	2	8.0	1	< 0.1
Thysanoessa spinifera A&J	2	8.0	1	< 0.1
Mysidacea >5mm	1	8.0	< 1	< 0.1
Thysanoessa inermis A&J	1	8.0	< 1	< 0.1
Other Copepoda >5mm	1	8.0	< 1	< 0.1
			11984	100.

STA. 075            56 33.5 N        156 32.6 W        24 May 87        10:19

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
195                    125 - 150                109.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Pseudocalanus spp. - adult F	245	64.0	1439	20.5
Oithona spp.	125	64.0	734	10.5
Metriididae C-3	97	64.0	570	8.1
Metriididae C-1	90	64.0	528	7.5
Metridia pacifica - adult M	85	64.0	499	7.1
Neocalanus plumchrus C-5	76	64.0	446	6.4
Metriididae C-2	67	64.0	393	5.6
Metridia pacifica C-5 F	62	64.0	364	5.2
Other Copepoda <2mm	40	64.0	235	3.3
Pseudocalanus spp. - adult M	38	64.0	223	3.2
Metridia pacifica - adult F	33	64.0	194	2.8
Other Copepoda - nauplius	32	64.0	188	2.7
Metridia pacifica C-4	30	64.0	176	2.5
Metridia pacifica C-5 M	28	64.0	164	2.3
Pseudocalanus spp. C-5 F	23	64.0	135	1.9
Pseudocalanus spp. C-5 M	17	64.0	100	1.4
Calanus marshallae - adult M	15	64.0	88	1.3
Metridia spp. C-4	12	64.0	70	1.0
Pseudocalanus spp. C-4 F	11	64.0	65	0.9
Calanus marshallae C-5	11	64.0	65	0.9
Polychaeta <5mm	6	64.0	35	0.5
Metridia spp. - adult F	6	64.0	35	0.5
Mysidacea <5mm	6	64.0	35	0.5
Neocalanus plumchrus C-4	4	64.0	23	0.3
Neocalanus cristatus C-5	113	2.0	21	0.3
Chaetognatha >20mm	109	2.0	20	0.3
Other Copepoda damaged	3	64.0	18	0.3
Calanus marshallae - adult F	3	64.0	18	0.3
Calanus marshallae C-4	3	64.0	18	0.3
Gastropoda <5mm	3	64.0	18	0.3
Cirripedia - nauplius <5mm	2	64.0	12	0.2
Hyperiididea <5mm	2	64.0	12	0.2
Metridia spp. C-5 F	2	64.0	12	0.2
Pseudocalanus spp. C-4 M	2	64.0	12	0.2
Natantia - larva	1	64.0	6	0.1
?Pseudocalanus spp. C-3	1	64.0	6	0.1
?Pseudocalanus spp. C-2	1	64.0	6	0.1
Metridia spp. - adult M	1	64.0	6	0.1
Thecosomata <5mm	1	64.0	6	0.1
Unidentified Calanoida C-3	1	64.0	6	0.1
Unidentified Calanoida C-2	1	64.0	6	0.1
Acartia spp.	1	64.0	6	0.1
Other Copepoda 2-5mm	1	64.0	6	0.1
Neocalanus cristatus C-4	18	2.0	3	< 0.1
Mysidacea >5mm	7	2.0	1	< 0.1
Gammaridea >5mm	3	2.0	1	< 0.1
Chaetognatha 5-20mm	3	2.0	1	< 0.1
Thysanoessa inermis A&J	1	2.0	< 1	< 0.1

Cnidaria - medusa &gt;5mm

1	2.0	< 1	< 0.1
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	7022		100.



STA. 076            56 33.8 N        156 33.0 W        24 May 87        16:00

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    1 - 14                    171.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Other Copepoda - nauplius	265	512.0	7935	23.8
Invertebrata - egg <5mm	223	512.0	6677	20.0
Oithona spp.	191	512.0	5719	17.2
Euphausiacea - nauplius	68	512.0	2036	6.1
Acartia spp.	61	512.0	1826	5.5
?Pseudocalanus spp. C-1	49	512.0	1467	4.4
Pseudocalanus spp. - adult F	43	512.0	1287	3.9
?Pseudocalanus spp. C-2	27	512.0	808	2.4
Euphausiacea - calyptopis 1	26	512.0	778	2.3
?Pseudocalanus spp. C-3	20	512.0	599	1.8
Pseudocalanus spp. C-4 F	17	512.0	509	1.5
Thecosomata <5mm	15	512.0	449	1.3
Pseudocalanus spp. C-5 M	14	512.0	419	1.3
Pseudocalanus spp. C-5 F	14	512.0	419	1.3
Pseudocalanus spp. C-4 M	11	512.0	329	1.0
Polychaeta <5mm	11	512.0	329	1.0
Larvacea	9	512.0	269	0.8
Euphausiacea - furcilia	7	512.0	210	0.6
Other Copepoda <2mm	6	512.0	180	0.5
Pseudocalanus spp. - adult M	4	512.0	120	0.4
Euphausiacea - calyptopis 2	4	512.0	120	0.4
Calanus marshallae C-1	3	512.0	90	0.3
Neocalanus plumchrus C-5	3	512.0	90	0.3
Chaetognatha 5-20mm	336	4.0	79	0.2
Other zooplankton <5mm	2	512.0	60	0.2
Other Copepoda damaged	2	512.0	60	0.2
Echinodermata - larva <5mm	2	512.0	60	0.2
Cirripedia - cypris <5mm	2	512.0	60	0.2
Calanus marshallae C-2	2	512.0	60	0.2
Metriididae C-1	2	512.0	60	0.2
Euphausiacea - calyptopis 3	1	512.0	30	0.1
Natantia - larva	1	512.0	30	0.1
Metriididae C-2	1	512.0	30	0.1
Calanus marshallae - adult F	1	512.0	30	0.1
Cnidaria - medusa <5mm	1	512.0	30	0.1
Metridia pacifica - adult M	1	512.0	30	0.1
Metridia pacifica - adult F	1	512.0	30	0.1
Cnidaria - medusa >5mm	8	4.0	2	< 0.1
Nematoda >5mm	1	4.0	< 1	< 0.1
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			33316	100.

STA. 076            56 33.8 N        156 33.0 W        24 May 87        16:00

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    14 - 30                    94.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	481	256.0	13100	30.0
Other Copepoda - nauplius	341	256.0	9287	21.3
Invertebrata - egg <5mm	167	256.0	4548	10.4
Euphausiacea - nauplius	128	256.0	3486	8.0
?Pseudocalanus spp. C-2	70	256.0	1906	4.4
?Pseudocalanus spp. C-1	56	256.0	1525	3.5
?Pseudocalanus spp. C-3	53	256.0	1443	3.3
Pseudocalanus spp. - adult F	38	256.0	1035	2.4
Acartia spp.	29	256.0	790	1.8
Neocalanus plumchrus C-5	24	256.0	654	1.5
Pseudocalanus spp. C-5 M	22	256.0	599	1.4
Pseudocalanus spp. C-4 M	22	256.0	599	1.4
Larvacea	21	256.0	572	1.3
Pseudocalanus spp. C-5 F	21	256.0	572	1.3
Pseudocalanus spp. C-4 F	20	256.0	545	1.2
Polychaeta <5mm	13	256.0	354	0.8
Other Copepoda damaged	12	256.0	327	0.7
Chaetognatha 5-20mm	307	8.0	261	0.6
Other Copepoda <2mm	9	256.0	245	0.6
Gastropoda <5mm	8	256.0	218	0.5
Euphausiacea - calyptopis 1	8	256.0	218	0.5
Calanus marshallae C-1	7	256.0	191	0.4
Echinodermata - larva <5mm	6	256.0	163	0.4
Thecosomata <5mm	6	256.0	163	0.4
Calanus marshallae C-2	6	256.0	163	0.4
Chaetognatha <5mm	4	256.0	109	0.2
Pseudocalanus spp. - adult M	4	256.0	109	0.2
Calanus marshallae C-4	4	256.0	109	0.2
Cirripedia - cypris <5mm	3	256.0	82	0.2
Cirripedia - nauplius <5mm	2	256.0	54	0.1
Calanus marshallae - adult M	2	256.0	54	0.1
Calanus marshallae C-3	1	256.0	27	0.1
Euphausiacea - calyptopis 2	1	256.0	27	0.1
Other zooplankton <5mm	1	256.0	27	0.1
Euphausiacea - calyptopis 3	1	256.0	27	0.1
Chaetognatha >20mm	2	8.0	2	< 0.1
Eucalanus bungii - adult F	1	8.0	1	< 0.1
			43593	100.

STA. 076      56 33.8 N      156 33.0 W      24 May 87      16:00

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
190                      30 - 46                  51.0                      153

Taxon	Number counted	Sub/fac	No./10m3	%
Other Copepoda - nauplius	639	512.0	64151	53.7
Oithona spp.	241	512.0	24195	20.3
?Pseudocalanus spp. C-1	60	512.0	6024	5.0
Neocalanus plumchrus C-5	43	512.0	4317	3.6
?Pseudocalanus spp. C-3	20	512.0	2008	1.7
Metriididae C-1	18	512.0	1807	1.5
Invertebrata - egg <5mm	16	512.0	1606	1.3
Pseudocalanus spp. C-5 M	15	512.0	1506	1.3
Pseudocalanus spp. C-4 M	14	512.0	1405	1.2
Pseudocalanus spp. C-4 F	14	512.0	1405	1.2
Pseudocalanus spp. - adult F	12	512.0	1205	1.0
Pseudocalanus spp. C-5 F	11	512.0	1104	0.9
Calanus marshallae C-3	10	512.0	1004	0.8
Other Copepoda <2mm	9	512.0	904	0.8
Calanus marshallae C-2	8	512.0	803	0.7
?Pseudocalanus spp. C-2	7	512.0	703	0.6
Euphausiacea - nauplius	7	512.0	703	0.6
Calanus marshallae C-4	7	512.0	703	0.6
Larvacea	7	512.0	703	0.6
Acartia spp.	4	512.0	402	0.3
Pseudocalanus spp. - adult M	4	512.0	402	0.3
Calanus marshallae C-5	3	512.0	301	0.3
Polychaeta <5mm	3	512.0	301	0.3
Metriididae C-2	3	512.0	301	0.3
Gastropoda <5mm	2	512.0	201	0.2
Thecosomata <5mm	2	512.0	201	0.2
Calanus marshallae C-1	2	512.0	201	0.2
Chaetognatha 5-20mm	230	4.0	180	0.2
Echinodermata - larva <5mm	1	512.0	100	0.1
Metriididae C-3	1	512.0	100	0.1
Metridia pacifica C-5 M	1	512.0	100	0.1
Echinodermata <5mm	1	512.0	100	0.1
Calanus marshallae - adult F	1	512.0	100	0.1
Metridia pacifica - adult F	1	512.0	100	0.1
Metridia pacifica C-4	1	512.0	100	0.1
Chaetognatha >20mm	7	4.0	5	< 0.1
Eucalanus bungii - adult F	7	4.0	5	< 0.1
Neocalanus cristatus C-5	4	4.0	3	< 0.1
Thysanoessa longipes A&J	1	4.0	1	< 0.1
			119461	100.

STA. 076            56 33.8 N        156 33.0 W        24 May 87        16:00

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    46 - 60                    77.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	157	128.0	2610	16.9
Neocalanus plumchrus C-5	113	128.0	1878	12.2
Other Copepoda - nauplius	112	128.0	1862	12.0
Pseudocalanus spp. - adult F	72	128.0	1197	7.7
Metriididae C-1	62	128.0	1031	6.7
Pseudocalanus spp. C-5 M	53	128.0	881	5.7
Pseudocalanus spp. - adult M	51	128.0	848	5.5
Pseudocalanus spp. C-5 F	48	128.0	798	5.2
Calanus marshallae C-4	37	128.0	615	4.0
Calanus marshallae C-3	36	128.0	598	3.9
Metriididae C-2	22	128.0	366	2.4
Pseudocalanus spp. C-4 F	22	128.0	366	2.4
Calanus marshallae C-2	20	128.0	332	2.2
Invertebrata - egg <5mm	13	128.0	216	1.4
Other Copepoda damaged	12	128.0	199	1.3
Metriididae C-3	12	128.0	199	1.3
Calanus marshallae C-5	11	128.0	183	1.2
Pseudocalanus spp. C-4 M	11	128.0	183	1.2
?Pseudocalanus spp. C-1	9	128.0	150	1.0
?Pseudocalanus spp. C-3	8	128.0	133	0.9
Other Copepoda <2mm	7	128.0	116	0.8
Chaetognatha 5-20mm	205	4.0	106	0.7
Calanus marshallae - adult F	6	128.0	100	0.6
?Pseudocalanus spp. C-2	5	128.0	83	0.5
Larvacea	5	128.0	83	0.5
Calanus marshallae C-1	4	128.0	66	0.4
Gastropoda <5mm	3	128.0	50	0.3
Chaetognatha <5mm	3	128.0	50	0.3
Metridia pacifica C-4	2	128.0	33	0.2
Metridia pacifica C-5 M	2	128.0	33	0.2
Metridia pacifica - adult F	1	128.0	17	0.1
Other Copepoda 2-5mm	1	128.0	17	0.1
Neocalanus plumchrus C-4	1	128.0	17	0.1
Cirripedia - nauplius <5mm	1	128.0	17	0.1
Acartia spp.	1	128.0	17	0.1
Neocalanus cristatus C-5	7	4.0	4	< 0.1
Thysanoessa spinifera A&J	2	4.0	1	< 0.1
			15455	100.

STA. 076            56 33.8 N        156 33.0 W        24 May 87        16:00

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    60 - 81                    161.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	405	128.0	3220	23.6
Pseudocalanus spp. - adult F	201	128.0	1598	11.7
Neocalanus plumchrus C-5	167	128.0	1328	9.7
Metriididae C-1	134	128.0	1065	7.8
Other Copepoda <2mm	124	128.0	986	7.2
Pseudocalanus spp. - adult M	118	128.0	938	6.9
Other Copepoda - nauplius	87	128.0	692	5.1
Metriididae C-2	76	128.0	604	4.4
Metridia pacifica C-5 M	55	128.0	437	3.2
Pseudocalanus spp. C-5 F	40	128.0	318	2.3
Metridia pacifica - adult F	35	128.0	278	2.0
Metriididae C-3	33	128.0	262	1.9
Metridia pacifica C-4	32	128.0	254	1.9
Pseudocalanus spp. C-5 M	32	128.0	254	1.9
Calanus marshallae C-4	30	128.0	239	1.7
Invertebrata - egg <5mm	18	128.0	143	1.0
Calanus marshallae C-5	16	128.0	127	0.9
?Pseudocalanus spp. C-1	16	128.0	127	0.9
Pseudocalanus spp. C-4 F	13	128.0	103	0.8
?Pseudocalanus spp. C-2	11	128.0	87	0.6
Calanus marshallae C-3	10	128.0	80	0.6
Metridia pacifica C-5 F	9	128.0	72	0.5
?Pseudocalanus spp. C-3	9	128.0	72	0.5
Calanus marshallae - adult F	8	128.0	64	0.5
Larvacea	8	128.0	64	0.5
Pseudocalanus spp. C-4 M	6	128.0	48	0.3
Euphausiacea - nauplius	5	128.0	40	0.3
Echinodermata - larva <5mm	3	128.0	24	0.2
Chaetognatha 5-20mm	157	2.0	20	0.1
Neocalanus cristatus C-5	141	2.0	18	0.1
Calanus marshallae C-2	2	128.0	16	0.1
Polychaeta <5mm	2	128.0	16	0.1
Calanus marshallae - adult M	1	128.0	8	0.1
Thecosomata <5mm	1	128.0	8	0.1
Metridia pacifica - adult M	1	128.0	8	0.1
Unidentified Calanoida C-1	1	128.0	8	0.1
Cirripedia - cypris <5mm	1	128.0	8	0.1
Foraminifera <5mm	1	128.0	8	0.1
Siphonophora <5mm	1	128.0	8	0.1
Acartia spp.	1	128.0	8	0.1
Gastropoda <5mm	1	128.0	8	0.1
Chaetognatha >20mm	19	2.0	2	< 0.1
Thysanoessa inermis A&J	10	2.0	1	< 0.1
Thysanoessa spinifera A&J	6	2.0	1	< 0.1
Neocalanus cristatus C-4	3	2.0	< 1	< 0.1
Cnidaria - medusa >5mm	2	2.0	< 1	< 0.1
Eucalanus bungii - adult F	1	2.0	< 1	< 0.1

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13669      100.

STA. 076            56 33.8 N        156 33.0 W        24 May 87            16:00

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    81 - 100                123.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	252	256.0	5245	25.4
Pseudocalanus spp. - adult M	138	256.0	2872	13.9
Other Copepoda <2mm	91	256.0	1894	9.2
Pseudocalanus spp. - adult F	87	256.0	1811	8.8
Metridia pacifica - adult F	76	256.0	1582	7.7
Metriididae C-1	74	256.0	1540	7.5
Metriididae C-2	49	256.0	1020	4.9
Metridia pacifica C-5 M	29	256.0	604	2.9
Metridia pacifica C-5 F	24	256.0	500	2.4
Metriididae C-3	22	256.0	458	2.2
Other Copepoda - nauplius	19	256.0	395	1.9
Metridia pacifica C-4	16	256.0	333	1.6
Calanus marshallae C-5	14	256.0	291	1.4
Other Copepoda damaged	14	256.0	291	1.4
Calanus marshallae - adult F	13	256.0	271	1.3
Neocalanus plumchrus C-5	12	256.0	250	1.2
Calanus marshallae C-4	10	256.0	208	1.0
Pseudocalanus spp. C-5 M	8	256.0	167	0.8
Larvacea	8	256.0	167	0.8
Pseudocalanus spp. C-5 F	4	256.0	83	0.4
Cnidaria - medusa <5mm	4	256.0	83	0.4
Brachyura - larva	4	256.0	83	0.4
Pseudocalanus spp. C-4 M	3	256.0	62	0.3
Invertebrata - egg <5mm	3	256.0	62	0.3
Acartia spp.	3	256.0	62	0.3
Thecosomata <5mm	2	256.0	42	0.2
Polychaeta <5mm	2	256.0	42	0.2
Hyperiidea <5mm	2	256.0	42	0.2
Chaetognatha 5-20mm	138	2.0	22	0.1
?Pseudocalanus spp. C-3	1	256.0	21	0.1
Euphausiacea damaged	1	256.0	21	0.1
Other Copepoda 2-5mm	1	256.0	21	0.1
Gastropoda <5mm	1	256.0	21	0.1
?Pseudocalanus spp. C-1	1	256.0	21	0.1
Calanus marshallae C-3	1	256.0	21	0.1
Metridia pacifica - adult M	1	256.0	21	0.1
Neocalanus cristatus C-5	109	2.0	18	0.1
Thysanoessa spinifera A&J	27	2.0	4	< 0.1
Chaetognatha >20mm	11	2.0	2	< 0.1
Cnidaria - medusa >5mm	5	2.0	1	< 0.1
Thysanoessa inermis A&J	4	2.0	1	< 0.1
Euphausiacea A&J damaged	3	2.0	< 1	< 0.1
Neocalanus cristatus C-4	2	2.0	< 1	< 0.1
Eucalanus bungii C-5 M	1	2.0	< 1	< 0.1
Eucalanus bungii - adult F	1	2.0	< 1	< 0.1
			20654	100.

STA. 076            56 33.8 N        156 33.0 W        24 May 87        16:00

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    100 - 124                106.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	247	32.0	746	17.8
Metridia pacifica - adult F	246	32.0	743	17.7
Pseudocalanus spp. - adult F	205	32.0	619	14.8
Other Copepoda <2mm	92	32.0	278	6.6
Metriididae C-3	91	32.0	275	6.5
Metriididae C-2	87	32.0	263	6.3
Metriididae C-1	62	32.0	187	4.5
Pseudocalanus spp. - adult M	56	32.0	169	4.0
Metridia pacifica C-5 F	47	32.0	142	3.4
Metridia pacifica C-5 M	24	32.0	72	1.7
Larvacea	22	32.0	66	1.6
Other Copepoda - nauplius	20	32.0	60	1.4
Metridia pacifica C-4	20	32.0	60	1.4
Metridia pacifica - adult M	19	32.0	57	1.4
Calanus marshallae C-5	18	32.0	54	1.3
Other Copepoda damaged	17	32.0	51	1.2
Calanus marshallae - adult F	14	32.0	42	1.0
Calanus marshallae C-4	14	32.0	42	1.0
Neocalanus plumchrus C-5	14	32.0	42	1.0
Pseudocalanus spp. C-5 F	12	32.0	36	0.9
Invertebrata - egg <5mm	9	32.0	27	0.6
Pseudocalanus spp. C-5 M	6	32.0	18	0.4
Calanus marshallae - adult M	6	32.0	18	0.4
Neocalanus cristatus C-5	81	2.0	15	0.4
Pseudocalanus spp. C-4 F	5	32.0	15	0.4
Thecosomata <5mm	5	32.0	15	0.4
Chaetognatha 5-20mm	66	2.0	12	0.3
?Pseudocalanus spp. C-3	4	32.0	12	0.3
Echinodermata - larva <5mm	3	32.0	9	0.2
Gastropoda <5mm	2	32.0	6	0.1
?Pseudocalanus spp. C-1	2	32.0	6	0.1
Thysanoessa spinifera A&J	28	2.0	5	0.1
Chaetognatha >20mm	17	2.0	3	0.1
Calanus pacificus C-5	1	32.0	3	0.1
Polychaeta <5mm	1	32.0	3	0.1
Euphausiacea - nauplius	1	32.0	3	0.1
Calanus pacificus - adult M	1	32.0	3	0.1
?Pseudocalanus spp. C-2	1	32.0	3	0.1
Anomura - larva	1	32.0	3	0.1
Pseudocalanus spp. C-4 M	1	32.0	3	0.1
Cnidaria - medusa >5mm	10	2.0	2	< 0.1
Neocalanus cristatus C-4	8	2.0	2	< 0.1
Thysanoessa inermis A&J	4	2.0	1	< 0.1
Euphausia pacifica A&J	1	2.0	< 1	< 0.1
			4195	100.



STA. 076            56 33.8 N            156 33.0 W            24 May 87            16:00

DEPTH                    SAMPLING INTERVAL            VOLUME FILTERED            NET MESH  
190                            124 - 150                    99.0                            153

Taxon	Number counted	Sub/fac	No./10m3	%
Metriididae C-1	161	128.0	2082	17.0
Other Copepoda - nauplius	126	128.0	1629	13.3
Oithona spp.	120	128.0	1552	12.7
Other Copepoda <2mm	81	128.0	1047	8.6
Metridia pacifica - adult F	80	128.0	1034	8.4
Pseudocalanus spp. - adult F	57	128.0	737	6.0
Metridia pacifica - adult M	48	128.0	621	5.1
Metridia pacifica C-4	32	128.0	414	3.4
Metriididae C-2	30	128.0	388	3.2
Metriididae C-3	29	128.0	375	3.1
Invertebrata - egg <5mm	24	128.0	310	2.5
Pseudocalanus spp. - adult M	21	128.0	272	2.2
Larvacea	19	128.0	246	2.0
Metridia pacifica C-5 F	19	128.0	246	2.0
Neocalanus plumchrus C-5	16	128.0	207	1.7
Metridia pacifica C-5 M	12	128.0	155	1.3
Pseudocalanus spp. C-5 F	10	128.0	129	1.1
Calanus marshallae - adult F	8	128.0	103	0.8
Calanus marshallae C-5	6	128.0	78	0.6
Pseudocalanus spp. C-5 M	5	128.0	65	0.5
Calanus marshallae - adult M	4	128.0	52	0.4
Thecosomata <5mm	4	128.0	52	0.4
Euphausiacea - nauplius	4	128.0	52	0.4
?Pseudocalanus spp. C-1	4	128.0	52	0.4
Calanus marshallae C-4	3	128.0	39	0.3
Cirripectida - cypris <5mm	3	128.0	39	0.3
Neocalanus cristatus C-5	145	2.0	29	0.2
Pseudocalanus spp. C-4 M	2	128.0	26	0.2
?Pseudocalanus spp. C-3	2	128.0	26	0.2
Calanus pacificus C-5	2	128.0	26	0.2
Pseudocalanus spp. C-4 F	2	128.0	26	0.2
Metridia spp. - adult F	1	128.0	13	0.1
Acartia spp.	1	128.0	13	0.1
?Pseudocalanus spp. C-2	1	128.0	13	0.1
Euphausiacea - furcilia	1	128.0	13	0.1
Calanus marshallae C-3	1	128.0	13	0.1
Hyperiidia <5mm	1	128.0	13	0.1
Gastropoda <5mm	1	128.0	13	0.1
Polychaeta <5mm	1	128.0	13	0.1
Cirripectida - nauplius <5mm	1	128.0	13	0.1
Chaetognatha 5-20mm	51	2.0	10	0.1
Neocalanus cristatus C-4	17	2.0	3	< 0.1
Chaetognatha >20mm	16	2.0	3	< 0.1
Cnidaria - medusa >5mm	10	2.0	2	< 0.1
Thysanoessa spinifera A&J	10	2.0	2	< 0.1
Hyperiidia >5mm	3	2.0	1	< 0.1
Other Copepoda >5mm	2	2.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	2.0	< 1	< 0.1

Eucalanus bungii C-5 M	1	2.0	< 1	< 0.1
Gastropoda >5mm	1	2.0	< 1	< 0.1
Eucalanus bungii - adult F	1	2.0	< 1	< 0.1
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		12244		100.

STA. 077            56 34.1 N        156 32.9 W        24 May 87        23:43

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    2 - 15                    81.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	339	128.0	5357	24.1
Other Copepoda - nauplius	141	128.0	2228	10.0
Invertebrata - egg <5mm	127	128.0	2007	9.0
Acartia spp.	127	128.0	2007	9.0
Pseudocalanus spp. - adult F	75	128.0	1185	5.3
?Pseudocalanus spp. C-1	57	128.0	901	4.1
?Pseudocalanus spp. C-3	57	128.0	901	4.1
?Pseudocalanus spp. C-2	55	128.0	869	3.9
Pseudocalanus spp. C-4 M	47	128.0	743	3.3
Pseudocalanus spp. C-5 F	46	128.0	727	3.3
Pseudocalanus spp. C-4 F	44	128.0	695	3.1
Pseudocalanus spp. C-5 M	42	128.0	664	3.0
Euphausiacea - nauplius	42	128.0	664	3.0
Larvacea	32	128.0	506	2.3
Euphausiacea - furcilia	20	128.0	316	1.4
Pseudocalanus spp. - adult M	17	128.0	269	1.2
Polychaeta <5mm	16	128.0	253	1.1
Other Copepoda <2mm	15	128.0	237	1.1
Chaetognatha 5-20mm	218	8.0	215	1.0
Echinodermata <5mm	12	128.0	190	0.9
Euphausiacea - calyptopis 1	12	128.0	190	0.9
Euphausiacea - calyptopis 3	10	128.0	158	0.7
Thecosomata <5mm	8	128.0	126	0.6
Euphausiacea - calyptopis 2	8	128.0	126	0.6
Cirripedia - nauplius <5mm	7	128.0	111	0.5
Neocalanus plumchrus C-5	5	128.0	79	0.4
Cirripedia - cypris <5mm	5	128.0	79	0.4
Calanus marshallae C-2	5	128.0	79	0.4
Calanus marshallae C-4	4	128.0	63	0.3
Cnidaria - medusa <5mm	2	128.0	32	0.1
Calanus marshallae C-3	2	128.0	32	0.1
Calanus marshallae C-1	2	128.0	32	0.1
Metridia pacifica - adult F	1	128.0	16	0.1
Metridia pacifica - adult M	1	128.0	16	0.1
Metridia pacifica C-5 M	1	128.0	16	0.1
Metridia pacifica C-4	1	128.0	16	0.1
Metriididae C-2	1	128.0	16	0.1
Ostracoda <5mm	1	128.0	16	0.1
Calanus marshallae C-5	1	128.0	16	0.1
Other Copepoda damaged	1	128.0	16	0.1
Other Copepoda 2-5mm	1	128.0	16	0.1
Calanus marshallae - adult F	1	128.0	16	0.1
Hyperiididea <5mm	1	128.0	16	0.1
Thysanoessa inermis A&J	1	8.0	1	< 0.1
Neocalanus cristatus C-5	1	8.0	1	< 0.1
			22214	100.

STA. 077            56 34.1 N            156 32.9 W            24 May 87            23:43

DEPTH                    SAMPLING INTERVAL            VOLUME FILTERED            NET MESH  
190                            15 - 30                    83.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	534	256.0	16470	51.2
Euphausiacea - nauplius	134	256.0	4133	12.8
Other Copepoda - nauplius	125	256.0	3855	12.0
Invertebrata - egg <5mm	51	256.0	1573	4.9
?Pseudocalanus spp. C-2	33	256.0	1018	3.2
?Pseudocalanus spp. C-3	27	256.0	833	2.6
?Pseudocalanus spp. C-1	23	256.0	709	2.2
Pseudocalanus spp. - adult F	15	256.0	463	1.4
Other Copepoda damaged	11	256.0	339	1.1
Pseudocalanus spp. C-4 M	11	256.0	339	1.1
Neocalanus plumchrus C-5	9	256.0	278	0.9
Pseudocalanus spp. C-5 F	8	256.0	247	0.8
Pseudocalanus spp. C-4 F	7	256.0	216	0.7
Larvacea	7	256.0	216	0.7
Pseudocalanus spp. C-5 M	6	256.0	185	0.6
Other Copepoda <2mm	5	256.0	154	0.5
Chaetognatha <5mm	5	256.0	154	0.5
Chaetognatha 5-20mm	143	8.0	138	0.4
Acartia spp.	4	256.0	123	0.4
Calanus marshallae C-5	3	256.0	93	0.3
Euphausiacea - furcilia	3	256.0	93	0.3
Gastropoda <5mm	3	256.0	93	0.3
Calanus marshallae C-4	3	256.0	93	0.3
Calanus marshallae C-2	2	256.0	62	0.2
Thecosomata <5mm	2	256.0	62	0.2
Pseudocalanus spp. - adult M	2	256.0	62	0.2
Echinodermata <5mm	1	256.0	31	0.1
Euphausiacea - calyptopis 2	1	256.0	31	0.1
Calanus pacificus - adult F	1	256.0	31	0.1
Calanus marshallae C-3	1	256.0	31	0.1
Invertebrata <5mm	1	256.0	31	0.1
Euphausiacea - calyptopis 1	1	256.0	31	0.1
Cnidaria - medusa >5mm	1	8.0	1	< 0.1
			32185	100.

STA. 077            56 34.1 N        156 32.9 W        24 May 87        23:43

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    30 - 45                    69.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	574	512.0	42592	35.3
Other Copepoda - nauplius	532	512.0	39476	32.7
?Pseudocalanus spp. C-1	106	512.0	7866	6.5
Invertebrata - egg <5mm	55	512.0	4081	3.4
?Pseudocalanus spp. C-2	45	512.0	3339	2.8
?Pseudocalanus spp. C-3	41	512.0	3042	2.5
Neocalanus plumchrus C-5	35	512.0	2597	2.2
Pseudocalanus spp. C-4 M	32	512.0	2374	2.0
Pseudocalanus spp. C-5 M	24	512.0	1781	1.5
Euphausiacea - nauplius	23	512.0	1707	1.4
Pseudocalanus spp. - adult F	22	512.0	1632	1.4
Pseudocalanus spp. C-4 F	22	512.0	1632	1.4
Pseudocalanus spp. C-5 F	19	512.0	1410	1.2
Calanus marshallae C-1	16	512.0	1187	1.0
Calanus marshallae C-4	12	512.0	890	0.7
Calanus marshallae C-2	11	512.0	816	0.7
Gastropoda <5mm	9	512.0	668	0.6
Larvacea	8	512.0	594	0.5
Other Copepoda <2mm	7	512.0	519	0.4
Thecosomata <5mm	5	512.0	371	0.3
Neocalanus plumchrus C-1	4	512.0	297	0.2
Pseudocalanus spp. - adult M	4	512.0	297	0.2
Polychaeta <5mm	3	512.0	223	0.2
Chaetognatha <5mm	2	512.0	148	0.1
Calanus marshallae C-3	2	512.0	148	0.1
Metriididae C-2	2	512.0	148	0.1
Metriididae C-1	2	512.0	148	0.1
Chaetognatha 5-20mm	256	4.0	148	0.1
Acartia spp.	1	512.0	74	0.1
Cirripedia - cypris <5mm	1	512.0	74	0.1
Calanus marshallae - adult F	1	512.0	74	0.1
Hyperiidea <5mm	1	512.0	74	0.1
Cirripedia - nauplius <5mm	1	512.0	74	0.1
Calanus marshallae C-5	1	512.0	74	0.1
Invertebrata <5mm	1	512.0	74	0.1
Euphausiacea - furcilia	1	512.0	74	0.1
Eucalanus bungii - adult F	6	4.0	3	< 0.1
Chaetognatha >20mm	2	4.0	1	< 0.1
Cnidaria - medusa >5mm	1	4.0	1	< 0.1
Eucalanus bungii C-5 M	1	4.0	1	< 0.1
			120734	100.

STA. 077            56 34.1 N        156 32.9 W        24 May 87        23:43

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    45 - 60                    66.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Other Copepoda - nauplius	404	512.0	31341	40.0
Oithona spp.	320	512.0	24824	31.7
Neocalanus plumchrus C-5	54	512.0	4189	5.3
Pseudocalanus spp. - adult F	35	512.0	2715	3.5
Metriididae C-1	22	512.0	1707	2.2
Pseudocalanus spp. C-4 M	17	512.0	1319	1.7
Pseudocalanus spp. C-5 M	15	512.0	1164	1.5
Calanus marshallae C-3	14	512.0	1086	1.4
?Pseudocalanus spp. C-2	12	512.0	931	1.2
?Pseudocalanus spp. C-1	11	512.0	853	1.1
Pseudocalanus spp. C-5 F	11	512.0	853	1.1
Invertebrata - egg <5mm	10	512.0	776	1.0
Calanus marshallae C-2	10	512.0	776	1.0
Pseudocalanus spp. C-4 F	10	512.0	776	1.0
Pseudocalanus spp. - adult M	9	512.0	698	0.9
Calanus marshallae C-4	9	512.0	698	0.9
?Pseudocalanus spp. C-3	8	512.0	621	0.8
Other Copepoda <2mm	7	512.0	543	0.7
Metriididae C-3	6	512.0	465	0.6
Calanus marshallae C-5	5	512.0	388	0.5
Metriididae C-2	5	512.0	388	0.5
Euphausiacea - nauplius	4	512.0	310	0.4
Larvacea	4	512.0	310	0.4
Calanus marshallae C-1	3	512.0	233	0.3
Chaetognatha 5-20mm	215	4.0	130	0.2
Gastropoda <5mm	1	512.0	78	0.1
Brachyura - larva	1	512.0	78	0.1
Euphausiacea - furcilia	1	512.0	78	0.1
Eucalanus bungii - adult F	3	4.0	2	< 0.1
Thysanoessa longipes A&J	1	4.0	1	< 0.1
Cnidaria - medusa >5mm	1	4.0	1	< 0.1
Thysanoessa inermis A&J	1	4.0	1	< 0.1
Neocalanus cristatus C-5	1	4.0	1	< 0.1
			78331	100.

STA. 077            56 34.1 N        156 32.9 W        24 May 87        23:43

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    60 - 80                    123.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	267	128.0	2779	24.4
Pseudocalanus spp. - adult F	131	128.0	1363	12.0
Neocalanus plumchrus C-5	105	128.0	1093	9.6
Metriididae C-1	93	128.0	968	8.5
Pseudocalanus spp. - adult M	75	128.0	780	6.8
Other Copepoda <2mm	71	128.0	739	6.5
Metriididae C-2	53	128.0	552	4.8
Other Copepoda - nauplius	44	128.0	458	4.0
Pseudocalanus spp. C-5 F	38	128.0	395	3.5
Metridia pacifica C-4	36	128.0	375	3.3
Metriididae C-3	27	128.0	281	2.5
Pseudocalanus spp. C-5 M	23	128.0	239	2.1
Pseudocalanus spp. C-4 F	17	128.0	177	1.6
Calanus marshallae C-3	16	128.0	167	1.5
Invertebrata - egg <5mm	16	128.0	167	1.5
Metridia pacifica C-5 M	15	128.0	156	1.4
Calanus marshallae C-4	15	128.0	156	1.4
?Pseudocalanus spp. C-1	11	128.0	114	1.0
?Pseudocalanus spp. C-3	7	128.0	73	0.6
Calanus marshallae C-2	6	128.0	62	0.5
Calanus marshallae C-5	5	128.0	52	0.5
Calanus marshallae - adult F	5	128.0	52	0.5
Chaetognatha 5-20mm	283	2.0	46	0.4
?Pseudocalanus spp. C-2	4	128.0	42	0.4
Pseudocalanus spp. C-4 M	3	128.0	31	0.3
Foraminifera <5mm	2	128.0	21	0.2
Hyperiididea <5mm	2	128.0	21	0.2
Polychaeta <5mm	1	128.0	10	0.1
Calanus marshallae C-1	1	128.0	10	0.1
Metridia pacifica - adult F	1	128.0	10	0.1
Thysanoessa inermis A&J	11	2.0	2	< 0.1
Chaetognatha >20mm	6	2.0	1	< 0.1
Neocalanus cristatus C-5	6	2.0	1	< 0.1
Neocalanus cristatus C-4	4	2.0	1	< 0.1
Thysanoessa spinifera A&J	2	2.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	2.0	< 1	< 0.1
			11394	100.

STA. 077            56 34.1 N        156 32.9 W        24 May 87        23:43

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    80 - 101                167.0                153

Taxon	Number counted	Sub/fac	No./10m3	%
Pseudocalanus spp. - adult F	196	128.0	1502	16.9
Metridia pacifica C-5 M	151	128.0	1157	13.0
Oithona spp.	133	128.0	1019	11.5
Neocalanus plumchrus C-5	123	128.0	943	10.6
Metridia pacifica C-4	113	128.0	866	9.7
Pseudocalanus spp. - adult M	94	128.0	720	8.1
Other Copepoda <2mm	77	128.0	590	6.6
Metriididae C-2	75	128.0	575	6.5
Metriididae C-1	46	128.0	353	4.0
Metridia pacifica C-5 F	36	128.0	276	3.1
Metriididae C-3	15	128.0	115	1.3
Pseudocalanus spp. C-5 M	14	128.0	107	1.2
Pseudocalanus spp. C-5 F	12	128.0	92	1.0
Calanus marshallae C-4	8	128.0	61	0.7
Metridia pacifica - adult F	8	128.0	61	0.7
Cnidaria - medusa <5mm	7	128.0	54	0.6
Other Copepoda - nauplius	6	128.0	46	0.5
Invertebrata - egg <5mm	6	128.0	46	0.5
Other Copepoda damaged	5	128.0	38	0.4
Calanus marshallae - adult F	5	128.0	38	0.4
Calanus marshallae C-5	5	128.0	38	0.4
Larvacea	4	128.0	31	0.3
Chaetognatha 5-20mm	122	4.0	29	0.3
Calanus marshallae C-3	3	128.0	23	0.3
Neocalanus cristatus C-5	67	4.0	16	0.2
Polychaeta <5mm	2	128.0	15	0.2
Pseudocalanus spp. C-4 F	2	128.0	15	0.2
Pseudocalanus spp. C-4 M	1	128.0	8	0.1
Calanus marshallae - adult M	1	128.0	8	0.1
Acartia spp.	1	128.0	8	0.1
Hyperiididae <5mm	1	128.0	8	0.1
Calanus pacificus C-5	1	128.0	8	0.1
Neocalanus plumchrus C-4	1	128.0	8	0.1
Echinodermata <5mm	1	128.0	8	0.1
Cirripedia - cypris <5mm	1	128.0	8	0.1
Thysanoessa inermis A&J	8	4.0	2	< 0.1
Chaetognatha >20mm	4	4.0	1	< 0.1
Neocalanus cristatus C-4	3	4.0	1	< 0.1
Cnidaria - medusa >5mm	2	4.0	< 1	< 0.1
Euphausiacea A&J damaged	1	4.0	< 1	< 0.1
Eucalanus bungii - adult F	1	4.0	< 1	< 0.1
Thysanoessa spinifera A&J	1	4.0	< 1	< 0.1
			8895	100.



STA. 077            56 34.1 N        156 32.9 W        24 May 87            23:43

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    101 - 124                126.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	275	64.0	1397	15.9
Neocalanus plumchrus C-5	256	64.0	1300	14.8
Other Copepoda <2mm	242	64.0	1229	14.0
Pseudocalanus spp. - adult F	196	64.0	996	11.3
Metridia pacifica C-5 M	184	64.0	935	10.6
Pseudocalanus spp. - adult M	90	64.0	457	5.2
Metridia pacifica C-4	87	64.0	442	5.0
Metriididae C-1	67	64.0	340	3.9
Metriididae C-2	53	64.0	269	3.1
Metridia pacifica C-5 F	50	64.0	254	2.9
Metridia pacifica - adult F	35	64.0	178	2.0
Calanus marshallae C-5	33	64.0	168	1.9
Metriididae C-3	24	64.0	122	1.4
Other Copepoda damaged	24	64.0	122	1.4
Other Copepoda - nauplius	18	64.0	91	1.0
Calanus marshallae - adult F	17	64.0	86	1.0
Larvacea	11	64.0	56	0.6
Pseudocalanus spp. C-5 F	9	64.0	46	0.5
Pseudocalanus spp. C-5 M	9	64.0	46	0.5
Calanus marshallae C-4	8	64.0	41	0.5
Neocalanus cristatus C-5	199	2.0	32	0.4
Invertebrata - egg <5mm	5	64.0	25	0.3
Pseudocalanus spp. C-4 F	4	64.0	20	0.2
Metridia pacifica - adult M	4	64.0	20	0.2
Calanus marshallae - adult M	4	64.0	20	0.2
Polychaeta <5mm	3	64.0	15	0.2
Acartia spp.	2	64.0	10	0.1
Gastropoda <5mm	2	64.0	10	0.1
Calanus marshallae C-3	2	64.0	10	0.1
?Pseudocalanus spp. C-3	2	64.0	10	0.1
Chaetognatha 5-20mm	53	2.0	8	0.1
Anomura - larva	1	64.0	5	0.1
Cirripedia - cypris <5mm	1	64.0	5	0.1
Pseudocalanus spp. C-4 M	1	64.0	5	0.1
Ostracoda <5mm	1	64.0	5	0.1
Other Copepoda 2-5mm	1	64.0	5	0.1
Other zooplankton <5mm	1	64.0	5	0.1
Thysanoessa inermis A&J	17	2.0	3	< 0.1
Chaetognatha >20mm	16	2.0	3	< 0.1
Thysanoessa spinifera A&J	15	2.0	2	< 0.1
Neocalanus cristatus C-4	8	2.0	1	< 0.1
Cnidaria - medusa >5mm	5	2.0	1	< 0.1
Eucalanus bungii C-5 F	1	2.0	< 1	< 0.1
Gammaridea >5mm	1	2.0	< 1	< 0.1
Euphausia pacifica A&J	1	2.0	< 1	< 0.1
			8797	100.

STA. 077            56 34.1 N        156 32.9 W        24 May 87        23:43

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
190                    124 - 151                141.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Metridia pacifica - adult F	249	128.0	2260	15.0
Oithona spp.	173	128.0	1570	10.4
Metridia pacifica - adult M	155	128.0	1407	9.4
Other Copepoda <2mm	154	128.0	1398	9.3
Metriididae C-1	128	128.0	1162	7.7
Neocalanus plumchrus C-5	126	128.0	1144	7.6
Pseudocalanus spp. - adult F	125	128.0	1135	7.5
Metridia pacifica C-5 F	118	128.0	1071	7.1
Metridia pacifica C-5 M	77	128.0	699	4.6
Metridia pacifica C-4	67	128.0	608	4.0
Metriididae C-2	50	128.0	454	3.0
Metriididae C-3	44	128.0	399	2.7
Calanus marshallae C-5	33	128.0	300	2.0
Pseudocalanus spp. - adult M	33	128.0	300	2.0
Other Copepoda - nauplius	28	128.0	254	1.7
Other Copepoda damaged	18	128.0	163	1.1
Calanus marshallae - adult F	16	128.0	145	1.0
Calanus marshallae - adult M	16	128.0	145	1.0
Calanus marshallae C-4	13	128.0	118	0.8
Pseudocalanus spp. C-5 F	8	128.0	73	0.5
Pseudocalanus spp. C-5 M	7	128.0	64	0.4
Neocalanus cristatus C-5	136	4.0	39	0.3
Thecosomata <5mm	2	128.0	18	0.1
Echinodermata - larva <5mm	2	128.0	18	0.1
Chaetognatha 5-20mm	59	4.0	17	0.1
Euphausiacea - calyptopis 1	1	128.0	9	0.1
Cirripectida - cypris <5mm	1	128.0	9	0.1
Calanus marshallae C-2	1	128.0	9	0.1
Pseudocalanus spp. C-4 F	1	128.0	9	0.1
Invertebrata <5mm	1	128.0	9	0.1
Calanus marshallae C-3	1	128.0	9	0.1
Neocalanus cristatus C-4	21	4.0	6	< 0.1
Thysanoessa spinifera A&J	20	4.0	6	< 0.1
Chaetognatha >20mm	16	4.0	5	< 0.1
Cnidaria - medusa >5mm	4	4.0	1	< 0.1
Invertebrata >5mm	1	4.0	< 1	< 0.1
Thysanoessa inermis A&J	1	4.0	< 1	< 0.1
Euphausia pacifica A&J	1	4.0	< 1	< 0.1
Euphausiacea A&J damaged	1	4.0	< 1	< 0.1
Gammaridea >5mm	1	4.0	< 1	< 0.1
			15035	100.

STA. 078            56 34.0 N            156 32.5 W            25 May 87            5:22

DEPTH                    SAMPLING INTERVAL            VOLUME FILTERED            NET MESH  
196                            1 - 15                            75.0                            153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	273	1024.0	37274	27.8
Euphausiacea - nauplius	134	1024.0	18295	13.7
Other Copepoda - nauplius	74	1024.0	10103	7.5
?Pseudocalanus spp. C-2	67	1024.0	9148	6.8
Invertebrata - egg <5mm	62	1024.0	8465	6.3
?Pseudocalanus spp. C-3	43	1024.0	5871	4.4
?Pseudocalanus spp. C-1	33	1024.0	4506	3.4
Pseudocalanus spp. - adult F	32	1024.0	4369	3.3
Pseudocalanus spp. C-5 M	31	1024.0	4233	3.2
Acartia spp.	30	1024.0	4096	3.1
Pseudocalanus spp. C-4 M	30	1024.0	4096	3.1
Pseudocalanus spp. C-5 F	28	1024.0	3823	2.9
Pseudocalanus spp. C-4 F	22	1024.0	3004	2.2
Larvacea	21	1024.0	2867	2.1
Thecosomata <5mm	10	1024.0	1365	1.0
Euphausiacea - calyptopis 1	10	1024.0	1365	1.0
Euphausiacea - furcilia	9	1024.0	1229	0.9
Cirripedia - cypris <5mm	7	1024.0	956	0.7
Neocalanus plumchrus C-5	6	1024.0	819	0.6
Pseudocalanus spp. - adult M	6	1024.0	819	0.6
Polychaeta <5mm	6	1024.0	819	0.6
Other Copepoda <2mm	6	1024.0	819	0.6
Calanus marshallae C-2	6	1024.0	819	0.6
Euphausiacea - calyptopis 3	5	1024.0	683	0.5
Gastropoda <5mm	5	1024.0	683	0.5
Chaetognatha 5-20mm	260	16.0	555	0.4
Calanus marshallae C-4	4	1024.0	546	0.4
Cirripedia - nauplius <5mm	3	1024.0	410	0.3
Natantia - larva	3	1024.0	410	0.3
Euphausiacea - calyptopis 2	3	1024.0	410	0.3
Other zooplankton <5mm	2	1024.0	273	0.2
Calanus marshallae C-1	2	1024.0	273	0.2
Calanus pacificus - adult M	1	1024.0	137	0.1
Neocalanus plumchrus C-4	1	1024.0	137	0.1
Calanus marshallae C-3	1	1024.0	137	0.1
Metridia pacifica - adult M	1	1024.0	137	0.1
Cnidaria - medusa >5mm	5	16.0	11	< 0.1
Neocalanus cristatus C-5	2	16.0	4	< 0.1
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			133963	100.

STA. 078            56 34.0 N        156 32.5 W        25 May 87            5:22

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
196                    15 - 32                    82.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	480	512.0	29971	36.9
Other Copepoda - nauplius	209	512.0	13050	16.1
?Pseudocalanus spp. C-2	90	512.0	5620	6.9
?Pseudocalanus spp. C-1	86	512.0	5370	6.6
Neocalanus plumchrus C-5	79	512.0	4933	6.1
Euphausiacea - nauplius	61	512.0	3809	4.7
?Pseudocalanus spp. C-3	47	512.0	2935	3.6
Invertebrata - egg <5mm	30	512.0	1873	2.3
Pseudocalanus spp. C-4 F	30	512.0	1873	2.3
Pseudocalanus spp. - adult F	28	512.0	1748	2.2
Pseudocalanus spp. C-4 M	26	512.0	1623	2.0
Pseudocalanus spp. C-5 M	21	512.0	1311	1.6
Other Copepoda damaged	16	512.0	999	1.2
Pseudocalanus spp. C-5 F	15	512.0	937	1.2
Calanus marshallae C-1	11	512.0	687	0.8
Larvacea	10	512.0	624	0.8
Pseudocalanus spp. - adult M	9	512.0	562	0.7
Chaetognatha <5mm	9	512.0	562	0.7
Gastropoda <5mm	8	512.0	500	0.6
Calanus marshallae C-5	7	512.0	437	0.5
Calanus marshallae C-2	5	512.0	312	0.4
Metridia pacifica - adult F	4	512.0	250	0.3
Other zooplankton <5mm	4	512.0	250	0.3
Calanus marshallae C-3	3	512.0	187	0.2
Acartia spp.	3	512.0	187	0.2
Calanus marshallae C-4	3	512.0	187	0.2
Chaetognatha 5-20mm	176	8.0	172	0.2
Cnidaria - medusa <5mm	1	512.0	62	0.1
Other Copepoda <2mm	1	512.0	62	0.1
Natantia - larva	1	512.0	62	0.1
Neocalanus cristatus C-5	13	8.0	13	< 0.1
Chaetognatha >20mm	6	8.0	6	< 0.1
Eucalanus bungii - adult F	3	8.0	3	< 0.1
Siphonophora >5mm	2	8.0	2	< 0.1
Thysanoessa inermis A&J	1	8.0	1	< 0.1
			81180	100.

STA. 078            56 34.0 N        156 32.5 W        25 May 87            5:22

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
196                    32 - 46                    95.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	267	512.0	14390	25.0
Pseudocalanus spp. - adult F	104	512.0	5605	9.7
Neocalanus plumchrus C-5	98	512.0	5282	9.2
Pseudocalanus spp. - adult M	68	512.0	3665	6.4
Metriididae C-1	64	512.0	3449	6.0
Other Copepoda - nauplius	61	512.0	3288	5.7
Pseudocalanus spp. C-5 M	48	512.0	2587	4.5
Other Copepoda damaged	40	512.0	2156	3.7
Pseudocalanus spp. C-5 F	40	512.0	2156	3.7
Metriididae C-2	35	512.0	1886	3.3
Calanus marshallae C-3	30	512.0	1617	2.8
Pseudocalanus spp. C-4 F	28	512.0	1509	2.6
Invertebrata - egg <5mm	24	512.0	1293	2.2
Metriididae C-3	22	512.0	1186	2.1
?Pseudocalanus spp. C-3	21	512.0	1132	2.0
Calanus marshallae C-4	21	512.0	1132	2.0
Pseudocalanus spp. C-4 M	17	512.0	916	1.6
Calanus marshallae C-2	15	512.0	808	1.4
Calanus marshallae C-5	12	512.0	647	1.1
Other Copepoda <2mm	9	512.0	485	0.8
?Pseudocalanus spp. C-2	7	512.0	377	0.7
Metridia pacifica C-4	6	512.0	323	0.6
?Pseudocalanus spp. C-1	5	512.0	269	0.5
Calanus marshallae - adult F	4	512.0	216	0.4
Larvacea	3	512.0	162	0.3
Polychaeta <5mm	3	512.0	162	0.3
Calanus marshallae - adult M	2	512.0	108	0.2
Echinodermata - larva <5mm	2	512.0	108	0.2
Thecosomata <5mm	2	512.0	108	0.2
Gastropoda <5mm	1	512.0	54	0.1
Euphausiacea - nauplius	1	512.0	54	0.1
Metridia pacifica C-5 F	1	512.0	54	0.1
Calanus marshallae C-1	1	512.0	54	0.1
Neocalanus plumchrus C-4	1	512.0	54	0.1
Metridia pacifica - adult F	1	512.0	54	0.1
Neocalanus cristatus C-5	62	8.0	52	0.1
Chaetognatha 5-20mm	61	8.0	51	0.1
Thysanoessa inermis A&J	56	8.0	47	0.1
Thysanoessa inspinata A&J	11	8.0	9	< 0.1
Chaetognatha >20mm	7	8.0	6	< 0.1
Neocalanus cristatus C-4	2	8.0	2	< 0.1
Euphausiacea A&J damaged	2	8.0	2	< 0.1
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			57513	100.

STA. 078            56 34.0 N        156 32.5 W        25 May 87            5:22

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
196                    46 - 60                    56.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	252	128.0	5760	24.0
Pseudocalanus spp. - adult F	147	128.0	3360	14.0
Metriididae C-1	131	128.0	2994	12.5
Neocalanus plumchrus C-5	111	128.0	2537	10.6
Metriididae C-2	107	128.0	2446	10.2
Pseudocalanus spp. - adult M	65	128.0	1486	6.2
Metriididae C-3	56	128.0	1280	5.3
Other Copepoda - nauplius	29	128.0	663	2.8
Metridia pacifica C-4	21	128.0	480	2.0
Other Copepoda damaged	20	128.0	457	1.9
Pseudocalanus spp. C-5 F	17	128.0	389	1.6
Calanus marshallae C-4	16	128.0	366	1.5
Other Copepoda <2mm	14	128.0	320	1.3
Pseudocalanus spp. C-5 M	11	128.0	251	1.0
Calanus marshallae C-3	11	128.0	251	1.0
Pseudocalanus spp. C-4 F	9	128.0	206	0.9
?Pseudocalanus spp. C-3	8	128.0	183	0.8
Invertebrata - egg <5mm	6	128.0	137	0.6
Metridia pacifica C-5 M	4	128.0	91	0.4
Calanus marshallae C-5	3	128.0	69	0.3
Calanus marshallae - adult F	2	128.0	46	0.2
Larvacea	2	128.0	46	0.2
Neocalanus cristatus C-5	137	1.0	24	0.1
?Pseudocalanus spp. C-1	1	128.0	23	0.1
Thecosomata <5mm	1	128.0	23	0.1
Calanus marshallae C-2	1	128.0	23	0.1
Polychaeta <5mm	1	128.0	23	0.1
Pseudocalanus spp. C-4 M	1	128.0	23	0.1
Thysanoessa inermis A&J	52	1.0	9	< 0.1
Chaetognatha 5-20mm	37	1.0	7	< 0.1
Chaetognatha >20mm	29	1.0	5	< 0.1
Thysanoessa spinifera A&J	18	1.0	3	< 0.1
Neocalanus cristatus C-4	8	1.0	1	< 0.1
Eucalanus bungii - adult F	1	1.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	1.0	< 1	< 0.1
Hyperiidia >5mm	1	1.0	< 1	< 0.1
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			23982	100.

STA. 078            56 34.0 N        156 32.5 W        25 May 87            5:22

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
196                    60 - 81                    102.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	293	64.0	1838	19.4
Pseudocalanus spp. - adult F	208	64.0	1305	13.7
Pseudocalanus spp. - adult M	118	64.0	740	7.8
Metriididae C-2	117	64.0	734	7.7
Metridia pacifica C-5 M	109	64.0	684	7.2
Neocalanus plumchrus C-5	105	64.0	659	6.9
Pseudocalanus spp. C-5 F	81	64.0	508	5.4
Metridia pacifica C-4	80	64.0	502	5.3
Metriididae C-3	70	64.0	439	4.6
Metriididae C-1	62	64.0	389	4.1
Metridia pacifica - adult F	54	64.0	339	3.6
Foraminifera <5mm	54	64.0	339	3.6
Other Copepoda damaged	53	64.0	333	3.5
Other Copepoda - nauplius	35	64.0	220	2.3
Metridia pacifica C-5 F	24	64.0	151	1.6
Calanus marshallae C-4	10	64.0	63	0.7
Calanus marshallae C-5	9	64.0	56	0.6
Pseudocalanus spp. C-5 M	8	64.0	50	0.5
Calanus marshallae - adult F	5	64.0	31	0.3
Calanus marshallae C-3	4	64.0	25	0.3
Neocalanus cristatus C-5	133	1.0	13	0.1
Echinodermata - larva <5mm	2	64.0	13	0.1
Chaetognatha >20mm	111	1.0	11	0.1
Calanus marshallae - adult M	1	64.0	6	0.1
Invertebrata - egg <5mm	1	64.0	6	0.1
Calanus marshallae C-2	1	64.0	6	0.1
Pseudocalanus spp. C-4 F	1	64.0	6	0.1
Pseudocalanus spp. C-4 M	1	64.0	6	0.1
Brachyura - larva	1	64.0	6	0.1
Chaetognatha <5mm	1	64.0	6	0.1
Chaetognatha 5-20mm	63	1.0	6	0.1
Thysanoessa inermis A&J	13	1.0	1	< 0.1
Thysanoessa spinifera A&J	11	1.0	1	< 0.1
Neocalanus cristatus C-4	4	1.0	< 1	< 0.1
Thysanoessa longipes A&J	1	1.0	< 1	< 0.1
Euphausiacea A&J damaged	1	1.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	1.0	< 1	< 0.1
			9495	100.

STA. 078            56 34.0 N        156 32.5 W        25 May 87            5:22

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
196                    81 - 102                93.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Pseudocalanus spp. - adult F	219	32.0	754	17.9
Metridia pacifica - adult F	148	32.0	509	12.1
Pseudocalanus spp. - adult M	146	32.0	502	11.9
Oithona spp.	146	32.0	502	11.9
Metriididae C-2	90	32.0	310	7.4
Metriididae C-3	76	32.0	262	6.2
Metridia pacifica C-5 M	67	32.0	231	5.5
Metridia pacifica C-4	64	32.0	220	5.2
Metriididae C-1	50	32.0	172	4.1
Other Copepoda damaged	50	32.0	172	4.1
Metridia pacifica C-5 F	44	32.0	151	3.6
Neocalanus plumchrus C-5	42	32.0	145	3.4
Pseudocalanus spp. C-5 F	15	32.0	52	1.2
Calanus marshallae - adult F	14	32.0	48	1.1
Other Copepoda <2mm	13	32.0	45	1.1
Pseudocalanus spp. C-5 M	6	32.0	21	0.5
Calanus marshallae C-4	6	32.0	21	0.5
Calanus marshallae C-5	5	32.0	17	0.4
Other Copepoda - nauplius	4	32.0	14	0.3
Chaetognatha 5-20mm	98	1.0	11	0.3
Calanus marshallae - adult M	3	32.0	10	0.2
Neocalanus cristatus C-5	73	1.0	8	0.2
Echinodermata - larva <5mm	2	32.0	7	0.2
Larvacea	2	32.0	7	0.2
Metridia pacifica - adult M	1	32.0	3	0.1
Cirripedia - cypris <5mm	1	32.0	3	0.1
Thecosomata <5mm	1	32.0	3	0.1
Neocalanus plumchrus C-4	1	32.0	3	0.1
Chaetognatha >20mm	30	1.0	3	0.1
Thysanoessa spinifera A&J	7	1.0	1	< 0.1
Cnidaria - medusa >5mm	4	1.0	< 1	< 0.1
Thysanoessa inermis A&J	2	1.0	< 1	< 0.1
Neocalanus cristatus C-4	2	1.0	< 1	< 0.1
Euphausia pacifica A&J	1	1.0	< 1	< 0.1
Eucalanus bungii C-5 F	1	1.0	< 1	< 0.1
			4208	100.



STA. 078            56 34.0 N        156 32.5 W        25 May 87            5:22

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
196                    102 - 126                284.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	302	128.0	1361	25.4
Metridia pacifica - adult F	191	128.0	861	16.0
Pseudocalanus spp. - adult F	176	128.0	793	14.8
Metriididae C-2	101	128.0	455	8.5
Metriididae C-1	95	128.0	428	8.0
Metriididae C-3	69	128.0	311	5.8
Other Copepoda <2mm	38	128.0	171	3.2
Metridia pacifica C-4	38	128.0	171	3.2
Pseudocalanus spp. - adult M	26	128.0	117	2.2
Neocalanus plumchrus C-5	22	128.0	99	1.8
Metridia spp. - adult F	19	128.0	86	1.6
Metridia pacifica C-5 F	17	128.0	77	1.4
Other Copepoda - nauplius	16	128.0	72	1.3
Metridia pacifica C-5 M	9	128.0	41	0.8
Calanus marshallae C-5	8	128.0	36	0.7
Pseudocalanus spp. C-5 M	7	128.0	32	0.6
Calanus marshallae C-4	7	128.0	32	0.6
Pseudocalanus spp. C-5 F	7	128.0	32	0.6
Calanus marshallae - adult M	6	128.0	27	0.5
Calanus marshallae - adult F	6	128.0	27	0.5
Neocalanus cristatus C-5	179	4.0	25	0.5
Thecosomata <5mm	5	128.0	23	0.4
Metridia pacifica - adult M	4	128.0	18	0.3
Pseudocalanus spp. C-4 M	4	128.0	18	0.3
Chaetognatha 5-20mm	76	4.0	11	0.2
?Pseudocalanus spp. C-1	2	128.0	9	0.2
Other zooplankton <5mm	1	128.0	5	0.1
Acartia spp.	1	128.0	5	0.1
Calanus marshallae C-1	1	128.0	5	0.1
?Pseudocalanus spp. C-2	1	128.0	5	0.1
?Pseudocalanus spp. C-3	1	128.0	5	0.1
Calanus marshallae C-3	1	128.0	5	0.1
Brachyura - larva	1	128.0	5	0.1
Chaetognatha >20mm	6	4.0	1	< 0.1
Cnidaria - medusa >5mm	1	4.0	< 1	< 0.1
Gammaridea >5mm	1	4.0	< 1	< 0.1
Neocalanus cristatus C-4	1	4.0	< 1	< 0.1
Thysanoessa spinifera A&J	1	4.0	< 1	< 0.1
			5365	100.

STA. 078            56 34.0 N            156 32.5 W            25 May 87            5:22

DEPTH                    SAMPLING INTERVAL            VOLUME FILTERED            NET MESH  
196                            126 - 153                    144.0                            153

Taxon	Number counted	Sub/fac	No./10m3	%
Metridia pacifica - adult F	218	32.0	484	21.0
Pseudocalanus spp. - adult F	169	32.0	376	16.2
Metridia pacifica - adult M	103	32.0	229	9.9
Oithona spp.	89	32.0	198	8.6
Metriididae C-2	64	32.0	142	6.2
Metridia spp. - adult F	59	32.0	131	5.7
Metriididae C-3	51	32.0	113	4.9
Metridia pacifica C-4	42	32.0	93	4.0
Metridia pacifica C-5 F	41	32.0	91	3.9
Other Copepoda <2mm	36	32.0	80	3.5
Neocalanus plumchrus C-5	27	32.0	60	2.6
Metriididae C-1	24	32.0	53	2.3
Calanus marshallae - adult M	16	32.0	36	1.5
Pseudocalanus spp. - adult M	16	32.0	36	1.5
Calanus marshallae C-5	15	32.0	33	1.4
Neocalanus cristatus C-5	186	2.0	26	1.1
Other Copepoda damaged	9	32.0	20	0.9
Metridia spp. C-4	8	32.0	18	0.8
Metridia pacifica C-5 M	7	32.0	16	0.7
Pseudocalanus spp. C-5 F	4	32.0	9	0.4
Other Copepoda 2-5mm	4	32.0	9	0.4
Chaetognatha 5-20mm	60	2.0	8	0.4
Gastropoda <5mm	3	32.0	7	0.3
Pseudocalanus spp. C-5 M	3	32.0	7	0.3
Thecosomata <5mm	3	32.0	7	0.3
Calanus marshallae C-4	2	32.0	4	0.2
Ostracoda <5mm	2	32.0	4	0.2
Neocalanus plumchrus - adult M	1	32.0	2	0.1
Larvacea	1	32.0	2	0.1
Echinodermata <5mm	1	32.0	2	0.1
Brachyura - larva	1	32.0	2	0.1
?Pseudocalanus spp. C-3	1	32.0	2	0.1
Other Copepoda - nauplius	1	32.0	2	0.1
Anomura - larva	1	32.0	2	0.1
Calanus marshallae C-3	1	32.0	2	0.1
Neocalanus cristatus C-4	13	2.0	2	0.1
Chaetognatha >20mm	9	2.0	1	0.1
Thysanoessa spinifera A&J	3	2.0	< 1	< 0.1
Gymnosomata >5mm	2	2.0	< 1	< 0.1
Euphausiacea A&J	1	2.0	< 1	< 0.1
Thysanoessa inermis A&J	1	2.0	< 1	< 0.1
Siphonophora >5mm	1	2.0	< 1	< 0.1
			2312	100.



STA. 079            56 33.6 N        156 32.2 W        25 May 87        10:18

DEPTH            SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
198                    1 - 16                    63.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	323	512.0	26250	32.9
Acartia spp.	72	512.0	5851	7.3
Pseudocalanus spp. - adult F	63	512.0	5120	6.4
?Pseudocalanus spp. C-2	58	512.0	4714	5.9
?Pseudocalanus spp. C-1	51	512.0	4145	5.2
?Pseudocalanus spp. C-3	49	512.0	3982	5.0
Other Copepoda - nauplius	47	512.0	3820	4.8
Pseudocalanus spp. C-5 M	35	512.0	2844	3.6
Euphausiacea - nauplius	31	512.0	2519	3.2
Invertebrata - egg <5mm	26	512.0	2113	2.6
Pseudocalanus spp. C-4 F	26	512.0	2113	2.6
Pseudocalanus spp. C-5 F	25	512.0	2032	2.5
Pseudocalanus spp. C-4 M	23	512.0	1869	2.3
Metridia pacifica - adult F	22	512.0	1788	2.2
Larvacea	20	512.0	1625	2.0
Other Copepoda <2mm	19	512.0	1544	1.9
Other Copepoda damaged	15	512.0	1219	1.5
Pseudocalanus spp. - adult M	11	512.0	894	1.1
Polychaeta <5mm	9	512.0	731	0.9
Chaetognatha 5-20mm	268	16.0	681	0.9
Thecosomata <5mm	7	512.0	569	0.7
Gastropoda <5mm	6	512.0	488	0.6
Echinodermata - larva <5mm	5	512.0	406	0.5
Metriididae C-2	5	512.0	406	0.5
Metriididae C-1	3	512.0	244	0.3
Metriididae C-3	3	512.0	244	0.3
Euphausiacea - calyptopis 1	3	512.0	244	0.3
Chaetognatha <5mm	2	512.0	163	0.2
Euphausiacea - calyptopis 2	2	512.0	163	0.2
Neocalanus plumchrus C-5	2	512.0	163	0.2
Other zooplankton <5mm	1	512.0	81	0.1
Metridia pacifica C-5 M	1	512.0	81	0.1
Calanus marshallae C-4	1	512.0	81	0.1
Metridia pacifica C-4	1	512.0	81	0.1
Calanus marshallae C-2	1	512.0	81	0.1
Calanus marshallae - adult F	1	512.0	81	0.1
Neocalanus plumchrus C-4	1	512.0	81	0.1
Metridia pacifica C-5 F	1	512.0	81	0.1
Calanus marshallae C-3	1	512.0	81	0.1
Neocalanus cristatus C-5	14	16.0	36	< 0.1
Thysanoessa inermis A&J	13	16.0	33	< 0.1
Thysanoessa spinifera A&J	3	16.0	8	< 0.1
Cnidaria - medusa >5mm	2	16.0	5	< 0.1
Euphausiacea A&J damaged	2	16.0	5	< 0.1
Chaetognatha >20mm	2	16.0	5	< 0.1
Gymnosomata >5mm	1	16.0	3	< 0.1
			79769	100.

STA. 079            56 33.6 N        156 32.2 W        25 May 87        10:18

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
198                    16 - 30                    82.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	267	512.0	16671	26.5
Other Copepoda - nauplius	136	512.0	8492	13.5
Euphausiacea - nauplius	128	512.0	7992	12.7
?Pseudocalanus spp. C-2	50	512.0	3122	5.0
?Pseudocalanus spp. C-1	36	512.0	2248	3.6
?Pseudocalanus spp. C-3	34	512.0	2123	3.4
Pseudocalanus spp. - adult F	32	512.0	1998	3.2
Euphausiacea - calyptopis 2	32	512.0	1998	3.2
Acartia spp.	30	512.0	1873	3.0
Euphausiacea - calyptopis 1	28	512.0	1748	2.8
Larvacea	25	512.0	1561	2.5
Euphausiacea - furcilia	22	512.0	1374	2.2
Euphausiacea - calyptopis 3	19	512.0	1186	1.9
Neocalanus plumchrus C-5	19	512.0	1186	1.9
Pseudocalanus spp. C-5 M	17	512.0	1061	1.7
Pseudocalanus spp. C-4 M	15	512.0	937	1.5
Invertebrata - egg <5mm	13	512.0	812	1.3
Pseudocalanus spp. C-5 F	12	512.0	749	1.2
Metridia pacifica - adult F	12	512.0	749	1.2
Chaetognatha 5-20mm	175	32.0	683	1.1
Pseudocalanus spp. - adult M	9	512.0	562	0.9
Cnidaria - medusa <5mm	8	512.0	500	0.8
Polychaeta <5mm	8	512.0	500	0.8
Other Copepoda <2mm	6	512.0	375	0.6
Calanus marshallae - adult F	4	512.0	250	0.4
Calanus marshallae C-5	4	512.0	250	0.4
Metridia pacifica C-5 M	3	512.0	187	0.3
Calanus marshallae C-4	3	512.0	187	0.3
Calanus marshallae C-3	3	512.0	187	0.3
Metriididae C-2	3	512.0	187	0.3
Calanus marshallae - adult M	2	512.0	125	0.2
Other Copepoda damaged	2	512.0	125	0.2
Cirripedia - cypris <5mm	2	512.0	125	0.2
Gastropoda <5mm	2	512.0	125	0.2
Metridia pacifica C-5 F	2	512.0	125	0.2
Calanus marshallae C-2	1	512.0	62	0.1
Metridia pacifica C-4	1	512.0	62	0.1
Hyperiididae <5mm	1	512.0	62	0.1
Thecosomata <5mm	1	512.0	62	0.1
Metridia pacifica - adult M	1	512.0	62	0.1
Metriididae C-3	1	512.0	62	0.1
Thysanoessa inermis A&J	15	32.0	59	0.1
Neocalanus cristatus C-5	14	32.0	55	0.1
Thysanoessa spinifera A&J	8	32.0	31	< 0.1
Euphausiacea A&J damaged	2	32.0	8	< 0.1
Chaetognatha >20mm	1	32.0	4	< 0.1
Gymnosomata >5mm	1	32.0	4	< 0.1
Cnidaria - medusa >5mm	1	32.0	4	< 0.1

100.

62911

STA. 079            56 33.6 N        156 32.2 W        25 May 87        10:18

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
198                    30 - 45                    104.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	291	512.0	14326	26.8
Other Copepoda - nauplius	166	512.0	8172	15.3
Neocalanus plumchrus C-5	71	512.0	3495	6.5
Pseudocalanus spp. C-4 F	44	512.0	2166	4.0
Pseudocalanus spp. - adult F	34	512.0	1674	3.1
Metridia pacifica - adult F	32	512.0	1575	2.9
?Pseudocalanus spp. C-1	32	512.0	1575	2.9
?Pseudocalanus spp. C-3	28	512.0	1378	2.6
Metridia pacifica C-4	27	512.0	1329	2.5
?Pseudocalanus spp. C-2	25	512.0	1231	2.3
Euphausiacea - furcilia	24	512.0	1182	2.2
Metridia pacifica C-5 F	24	512.0	1182	2.2
Calanus marshallae C-3	23	512.0	1132	2.1
Pseudocalanus spp. C-5 M	22	512.0	1083	2.0
Metridia pacifica C-5 M	21	512.0	1034	1.9
Pseudocalanus spp. C-5 F	21	512.0	1034	1.9
Calanus marshallae C-5	18	512.0	886	1.7
Invertebrata - egg <5mm	17	512.0	837	1.6
Pseudocalanus spp. - adult M	16	512.0	788	1.5
Calanus marshallae C-4	16	512.0	788	1.5
Pseudocalanus spp. C-4 M	15	512.0	738	1.4
Calanus marshallae C-2	15	512.0	738	1.4
Larvacea	13	512.0	640	1.2
Metriididae C-3	12	512.0	591	1.1
Calanus marshallae C-1	11	512.0	542	1.0
Metriididae C-2	11	512.0	542	1.0
Other Copepoda damaged	10	512.0	492	0.9
Calanus marshallae - adult F	8	512.0	394	0.7
Euphausiacea - calytopis 3	7	512.0	345	0.6
Euphausiacea - nauplius	6	512.0	295	0.6
Euphausiacea - calytopis 2	4	512.0	197	0.4
Metriididae C-1	4	512.0	197	0.4
Gastropoda <5mm	4	512.0	197	0.4
Thecosomata <5mm	3	512.0	148	0.3
Chaetognatha 5-20mm	140	8.0	108	0.2
Euphausiacea - calytopis 1	2	512.0	98	0.2
Calanus marshallae - adult M	2	512.0	98	0.2
Neocalanus cristatus C-5	95	8.0	73	0.1
Metridia spp. - adult F	1	512.0	49	0.1
Cirripedia - cypris <5mm	1	512.0	49	0.1
Calanus pacificus C-5	1	512.0	49	0.1
Hyperiididae <5mm	1	512.0	49	0.1
Chaetognatha >20mm	13	8.0	10	< 0.1
Thysanoessa spinifera A&J	11	8.0	8	< 0.1
Cnidaria - medusa >5mm	4	8.0	3	< 0.1
Other Copepoda >5mm	1	8.0	1	< 0.1
Polychaeta >5mm	1	8.0	1	< 0.1

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53521      100.



STA. 079            56 33.6 N        156 32.2 W        25 May 87        10:18

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
198                    45 - 61                    98.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	222	256.0	5799	23.2
Other Copepoda - nauplius	145	256.0	3788	15.2
Pseudocalanus spp. - adult F	67	256.0	1750	7.0
Metriididae C-1	53	256.0	1384	5.5
Pseudocalanus spp. - adult M	36	256.0	940	3.8
Metriididae C-2	36	256.0	940	3.8
Pseudocalanus spp. C-5 F	36	256.0	940	3.8
Neocalanus plumchrus C-5	33	256.0	862	3.5
Metridia pacifica - adult F	32	256.0	836	3.4
Metriididae C-3	29	256.0	758	3.0
Calanus marshallae C-3	22	256.0	575	2.3
Pseudocalanus spp. C-5 M	21	256.0	549	2.2
Calanus marshallae C-2	20	256.0	522	2.1
Metridia pacifica C-4	20	256.0	522	2.1
Pseudocalanus spp. C-4 F	20	256.0	522	2.1
Euphausiacea - furcilia	18	256.0	470	1.9
?Pseudocalanus spp. C-3	15	256.0	392	1.6
Calanus marshallae C-5	14	256.0	366	1.5
Calanus marshallae C-4	13	256.0	340	1.4
Metridia pacifica C-5 F	12	256.0	313	1.3
Pseudocalanus spp. C-4 M	11	256.0	287	1.2
Other Copepoda <2mm	9	256.0	235	0.9
?Pseudocalanus spp. C-2	8	256.0	209	0.8
Metridia pacifica C-5 M	7	256.0	183	0.7
Invertebrata - egg <5mm	6	256.0	157	0.6
Thecosomata <5mm	5	256.0	131	0.5
Cirripedia - cypris <5mm	5	256.0	131	0.5
?Pseudocalanus spp. C-1	4	256.0	104	0.4
Gastropoda <5mm	4	256.0	104	0.4
Acartia spp.	3	256.0	78	0.3
Polychaeta <5mm	3	256.0	78	0.3
Bivalvia - veliger <5mm	3	256.0	78	0.3
Larvacea	3	256.0	78	0.3
Euphausiacea - calyptopis 3	3	256.0	78	0.3
Chaetognatha 5-20mm	178	4.0	73	0.3
Metridia spp. - adult F	2	256.0	52	0.2
Calanus marshallae - adult F	2	256.0	52	0.2
Metridia spp. C-5 F	2	256.0	52	0.2
Neocalanus cristatus C-5	101	4.0	41	0.2
Chaetognatha <5mm	1	256.0	26	0.1
Metridia spp. C-4	1	256.0	26	0.1
Cnidaria - medusa <5mm	1	256.0	26	0.1
Calanus marshallae C-1	1	256.0	26	0.1
Calanus marshallae - adult M	1	256.0	26	0.1
Invertebrata <5mm	1	256.0	26	0.1
Thysanoessa spinifera A&J	22	4.0	9	< 0.1
Chaetognatha >20mm	12	4.0	5	< 0.1
Thysanoessa inermis A&J	6	4.0	2	< 0.1

Neocalanus cristatus C-4	4	4.0	2	< 0.1
Mysidacea >5mm	2	4.0	1	< 0.1
Other Copepoda >5mm	1	4.0	< 1	< 0.1
Euphausia pacifica A&J	1	4.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	4.0	< 1	< 0.1
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		24950	100.	

STA. 079            56 33.6 N        156 32.2 W        25 May 87        10:18

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
198                    61 - 80                    118.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	174	256.0	3775	16.2
Metriididae C-1	155	256.0	3363	14.4
Pseudocalanus spp. - adult F	142	256.0	3081	13.2
Pseudocalanus spp. - adult M	92	256.0	1996	8.6
Metriididae C-2	86	256.0	1866	8.0
Other Copepoda - nauplius	61	256.0	1323	5.7
Other Copepoda <2mm	46	256.0	998	4.3
Pseudocalanus spp. C-5 F	32	256.0	694	3.0
Other Copepoda damaged	30	256.0	651	2.8
Pseudocalanus spp. C-5 M	29	256.0	629	2.7
Metridia pacifica - adult F	27	256.0	586	2.5
Metriididae C-3	25	256.0	542	2.3
Neocalanus plumchrus C-5	23	256.0	499	2.1
Metridia pacifica C-4	18	256.0	391	1.7
Pseudocalanus spp. C-4 F	18	256.0	391	1.7
Calanus marshallae C-3	13	256.0	282	1.2
Calanus marshallae C-5	13	256.0	282	1.2
Calanus marshallae C-4	12	256.0	260	1.1
?Pseudocalanus spp. C-3	11	256.0	239	1.0
Metridia pacifica C-5 F	10	256.0	217	0.9
Pseudocalanus spp. C-4 M	7	256.0	152	0.7
Thecosomata <5mm	7	256.0	152	0.7
Invertebrata - egg <5mm	7	256.0	152	0.7
?Pseudocalanus spp. C-2	6	256.0	130	0.6
Calanus marshallae - adult M	6	256.0	130	0.6
Calanus marshallae - adult F	4	256.0	87	0.4
Metridia pacifica C-5 M	3	256.0	65	0.3
Polychaeta <5mm	3	256.0	65	0.3
Ostracoda <5mm	2	256.0	43	0.2
Euphausiacea - furcilia	2	256.0	43	0.2
Cirripedia - cypris <5mm	2	256.0	43	0.2
Chaetognatha 5-20mm	179	2.0	30	0.1
Brachyura - larva	1	256.0	22	0.1
Euphausiacea - calyptopis 1	1	256.0	22	0.1
Metridia spp. - adult F	1	256.0	22	0.1
Gastropoda <5mm	1	256.0	22	0.1
Calanus marshallae C-2	1	256.0	22	0.1
Natantia - larva	1	256.0	22	0.1
Neocalanus cristatus C-5	63	2.0	11	< 0.1
Chaetognatha >20mm	16	2.0	3	< 0.1
Thysanoessa spinifera A&J	13	2.0	2	< 0.1
Thysanoessa inermis A&J	4	2.0	1	< 0.1
Neocalanus cristatus C-4	2	2.0	< 1	< 0.1
Eucalanus bungii - adult F	1	2.0	< 1	< 0.1
Mysidacea >5mm	1	2.0	< 1	< 0.1
Cnidaria - medusa >5mm	1	2.0	< 1	< 0.1

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23304

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100.

STA. 079            56 33.6 N        156 32.2 W        25 May 87            10:18

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
198                    80 - 100                101.0                    153

Taxon	Number counted	Sub/ fac	No./ 10m3	%
Oithona spp.	243	64.0	1540	24.9
Pseudocalanus spp. - adult F	172	64.0	1090	17.6
Metriididae C-1	107	64.0	678	11.0
Other Copepoda <2mm	91	64.0	577	9.3
Pseudocalanus spp. - adult M	67	64.0	425	6.9
Metriididae C-2	64	64.0	406	6.6
Other Copepoda - nauplius	44	64.0	279	4.5
Metriididae C-3	20	64.0	127	2.1
Metridia pacifica - adult F	20	64.0	127	2.1
Pseudocalanus spp. C-5 F	19	64.0	120	1.9
Pseudocalanus spp. C-5 M	17	64.0	108	1.7
Calanus marshallae - adult M	10	64.0	63	1.0
Other Copepoda damaged	10	64.0	63	1.0
Thecosomata <5mm	10	64.0	63	1.0
Calanus marshallae C-4	7	64.0	44	0.7
Calanus marshallae C-5	7	64.0	44	0.7
Cirripedia - cypris <5mm	7	64.0	44	0.7
Metridia pacifica C-5 F	7	64.0	44	0.7
Metridia pacifica C-4	6	64.0	38	0.6
Chaetognatha 5-20mm	189	2.0	37	0.6
Neocalanus plumchrus C-5	5	64.0	32	0.5
Larvacea	5	64.0	32	0.5
Foraminifera <5mm	5	64.0	32	0.5
Metridia spp. - adult F	4	64.0	25	0.4
Pseudocalanus spp. C-4 M	3	64.0	19	0.3
Other Copepoda 2-5mm	3	64.0	19	0.3
?Pseudocalanus spp. C-3	2	64.0	13	0.2
Metridia pacifica C-5 M	2	64.0	13	0.2
Pseudocalanus spp. C-4 F	2	64.0	13	0.2
Calanus marshallae C-3	2	64.0	13	0.2
Calanus marshallae - adult F	2	64.0	13	0.2
Echinodermata - larva <5mm	1	64.0	6	0.1
Metridia spp. C-5 F	1	64.0	6	0.1
Gastropoda <5mm	1	64.0	6	0.1
Euphausiacea - nauplius	1	64.0	6	0.1
Metridia spp. - adult M	1	64.0	6	0.1
Chaetognatha >20mm	5	2.0	1	< 0.1
Thysanoessa spinifera A&J	5	2.0	1	< 0.1
Thysanoessa inermis A&J	5	2.0	1	< 0.1
Neocalanus cristatus C-5	5	2.0	1	< 0.1
Other Copepoda >5mm	1	2.0	< 1	< 0.1
Neocalanus cristatus C-4	1	2.0	< 1	< 0.1
Eucalanus bungii - adult F	1	2.0	< 1	< 0.1
			6176	100.

STA. 079            56 33.6 N            156 32.2 W            25 May 87            10:18

DEPTH                    SAMPLING INTERVAL            VOLUME FILTERED            NET MESH  
198                        100 - 124                    192.0                        153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	416	128.0	2773	35.0
Pseudocalanus spp. - adult F	158	128.0	1053	13.3
Other Copepoda <2mm	131	128.0	873	11.0
Metriididae C-1	92	128.0	613	7.8
Metriididae C-2	67	128.0	447	5.6
Pseudocalanus spp. - adult M	66	128.0	440	5.6
Other Copepoda - nauplius	37	128.0	247	3.1
Metriididae C-3	37	128.0	247	3.1
Other Copepoda damaged	22	128.0	147	1.9
Metridia pacifica - adult M	20	128.0	133	1.7
Pseudocalanus spp. C-5 F	14	128.0	93	1.2
Metridia pacifica - adult F	14	128.0	93	1.2
Metridia pacifica C-4	13	128.0	87	1.1
Thecosomata <5mm	11	128.0	73	0.9
Calanus marshallae C-5	10	128.0	67	0.8
Pseudocalanus spp. C-5 M	10	128.0	67	0.8
?Pseudocalanus spp. C-3	9	128.0	60	0.8
Metridia spp. - adult F	7	128.0	47	0.6
Calanus marshallae - adult M	7	128.0	47	0.6
Calanus marshallae C-5	5	128.0	33	0.4
Metridia pacifica C-5 F	5	128.0	33	0.4
Neocalanus plumchrus C-5	5	128.0	33	0.4
Pseudocalanus spp. C-4 F	4	128.0	27	0.3
Larvacea	3	128.0	20	0.3
Pseudocalanus spp. C-4 M	3	128.0	20	0.3
Chaetognatha 5-20mm	149	2.0	16	0.2
Metridia spp. C-4	2	128.0	13	0.2
?Pseudocalanus spp. C-2	2	128.0	13	0.2
Gastropoda <5mm	2	128.0	13	0.2
Calanus marshallae - adult F	2	128.0	13	0.2
Brachyura - larva	1	128.0	7	0.1
Mysidacea <5mm	1	128.0	7	0.1
Cirripectida - cypris <5mm	1	128.0	7	0.1
Metridia pacifica C-5 M	1	128.0	7	0.1
Acartia spp.	1	128.0	7	0.1
Invertebrata - egg <5mm	1	128.0	7	0.1
Polychaeta <5mm	1	128.0	7	0.1
Neocalanus plumchrus C-5	1	128.0	7	0.1
Echinodermata - larva <5mm	1	128.0	7	0.1
Euphausiacea - nauplius	1	128.0	7	0.1
Chaetognatha >20mm	19	2.0	2	< 0.1
Neocalanus cristatus C-5	7	2.0	1	< 0.1
Thysanoessa spinifera A&J	6	2.0	1	< 0.1
Neocalanus cristatus C-4	5	2.0	1	< 0.1
Thysanoessa inermis A&J	4	2.0	< 1	< 0.1
Natantia A&J >5mm	2	2.0	< 1	< 0.1
Eucalanus bungii - adult M	2	2.0	< 1	< 0.1
Mysidacea >5mm	2	2.0	< 1	< 0.1

Eucalanus bungii C-5 F  
Gammaridea >5mm

1	2.0	< 1	< 0.1
1	2.0	< 1	< 0.1
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		7914	100.

STA. 079            56 33.6 N        156 32.2 W        25 May 87        10:18

DEPTH                SAMPLING INTERVAL        VOLUME FILTERED        NET MESH  
198                    124 - 149                81.0                    153

Taxon	Number counted	Sub/fac	No./10m3	%
Oithona spp.	214	64.0	1691	23.7
Metriididae C-1	165	64.0	1304	18.3
Other Copepoda <2mm	104	64.0	822	11.5
Metriididae C-2	82	64.0	648	9.1
Pseudocalanus spp. - adult F	66	64.0	521	7.3
Metridia pacifica - adult M	61	64.0	482	6.8
Other Copepoda - nauplius	39	64.0	308	4.3
Metriididae C-3	22	64.0	174	2.4
Other Copepoda damaged	16	64.0	126	1.8
Foraminifera <5mm	14	64.0	111	1.5
Pseudocalanus spp. - adult M	14	64.0	111	1.5
Metridia pacifica C-4	13	64.0	103	1.4
Neocalanus plumchrus C-5	13	64.0	103	1.4
Metridia pacifica C-5 F	11	64.0	87	1.2
Metridia pacifica - adult F	11	64.0	87	1.2
Metridia pacifica C-5 M	6	64.0	47	0.7
Metridia spp. - adult F	6	64.0	47	0.7
Pseudocalanus spp. C-5 F	4	64.0	32	0.4
Calanus marshallae - adult M	4	64.0	32	0.4
Pseudocalanus spp. C-5 M	3	64.0	24	0.3
?Pseudocalanus spp. C-3	3	64.0	24	0.3
Calanus marshallae C-4	3	64.0	24	0.3
Pseudocalanus spp. C-4 F	3	64.0	24	0.3
Larvacea	2	64.0	16	0.2
Polychaeta <5mm	2	64.0	16	0.2
Calanus marshallae C-5	2	64.0	16	0.2
?Pseudocalanus spp. C-2	2	64.0	16	0.2
Neocalanus plumchrus - adult M	2	64.0	16	0.2
Cnidaria - medusa <5mm	1	64.0	8	0.1
Calanus marshallae C-3	1	64.0	8	0.1
Euphausiacea - calyptopis 1	1	64.0	8	0.1
Metridia spp. C-5 M	1	64.0	8	0.1
Metridia spp. C-4	1	64.0	8	0.1
Euphausiacea - nauplius	1	64.0	8	0.1
Brachyura - larva	1	64.0	8	0.1
?Pseudocalanus spp. C-1	1	64.0	8	0.1
Cirripedia - cypris <5mm	1	64.0	8	0.1
Echinodermata - larva <5mm	1	64.0	8	0.1
Mysidacea <5mm	1	64.0	8	0.1
Metridia spp. C-5 F	1	64.0	8	0.1
Gastropoda <5mm	1	64.0	8	0.1
Thecosomata <5mm	1	64.0	8	0.1
Ostracoda <5mm	1	64.0	8	0.1
Chaetognatha 5-20mm	51	1.0	6	0.1
Neocalanus cristatus C-5	17	1.0	2	< 0.1
Neocalanus cristatus C-4	7	1.0	1	< 0.1
Chaetognatha >20mm	5	1.0	1	< 0.1
Other Copepoda >5mm	4	1.0	< 1	< 0.1

Gammaridea >5mm	3	1.0	< 1	< 0.1
Thysanoessa spinifera A&J	2	1.0	< 1	< 0.1
Eucalanus bungii - adult M	1	1.0	< 1	< 0.1
Thysanoessa inspinata A&J	1	1.0	< 1	< 0.1
Thysanoessa inermis A&J	1	1.0	< 1	< 0.1
Hyperiidia >5mm	1	1.0	< 1	< 0.1
Siphonophora >5mm	1	1.0	< 1	< 0.1
Mysidacea >5mm	1	1.0	< 1	< 0.1
			-----	-----
			7139	100.





Appendix 2. Abundance of ichthyoplankton taxa at each station sampled with MOCNESS during FOCI cruise 3MF87 in Shelikof Strait, 18-29 May 1987.

STA. 072            56 32.5 N        156 32.8 W        23 May 87        15:47

BOTTOM DEPTH    201            NET MESH 153

SAMPLING INTERVAL            VOLUME FILTERED  
2 - 15                            50.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - egg	40	1.0	800	61.5
Hippoglossoides elassodon - larva	10	1.0	200	15.4
Theragra chalcogramma - larva	9	1.0	180	13.8
Bathymaster spp. - larva	4	1.0	80	6.2
Ammodytes hexapterus - larva	1	1.0	20	1.5
Theragra chalcogramma - egg	1	1.0	20	1.5
			1300	100.

SAMPLING INTERVAL            VOLUME FILTERED  
15 - 30                            66.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - egg	29	1.0	439	72.5
Theragra chalcogramma - larva	9	1.0	136	22.5
Hippoglossoides elassodon - larva	2	1.0	30	5.0
			605	100.

SAMPLING INTERVAL            VOLUME FILTERED  
30 - 45                            85.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - egg	7	1.0	82	58.3
Hippoglossoides elassodon - larva	3	1.0	35	25.0
Theragra chalcogramma - egg	1	1.0	12	8.3
Theragra chalcogramma - larva	1	1.0	12	8.3
			141	100.

SAMPLING INTERVAL            VOLUME FILTERED  
45 - 60                            112.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	1	1.0	9	100.0
			9	100.

SAMPLING INTERVAL  
60 - 81

VOLUME FILTERED  
138.0

NO EGGS OR LARVAE

SAMPLING INTERVAL  
81 - 102

VOLUME FILTERED  
113.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	2	1.0	18	66.7
Hippoglossoides elassodon - egg	1	1.0	9	33.3
			27	100.

SAMPLING INTERVAL  
102 - 125

VOLUME FILTERED  
125.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	3	1.0	24	60.0
Theragra chalcogramma - larva	2	1.0	16	40.0
			40	100.

SAMPLING INTERVAL  
125 - 150

VOLUME FILTERED  
144.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	4	1.0	28	57.1
Theragra chalcogramma - larva	3	1.0	21	42.9
			49	100.

STA. 073            56 33.1 N            156 36.7 W            23 May 87            22:22

BOTTOM DEPTH    179                    NET MESH 153

SAMPLING INTERVAL                    VOLUME FILTERED  
1 - 15                                    52.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Bathymaster spp. - larva	69	1.0	1327	44.2
Hippoglossoides elassodon - egg	46	1.0	885	29.5
Hippoglossoides elassodon - larva	24	1.0	462	15.4
Theragra chalcogramma - larva	12	1.0	231	7.7
Gadus macrocephalus - larva	3	1.0	58	1.9
Parophrys vetulus - larva	1	1.0	19	0.6
Stenobranchius leucopsarus - larva	1	1.0	19	0.6
			3001	100.

SAMPLING INTERVAL                    VOLUME FILTERED  
15 - 30                                    49.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - larva	49	1.0	1000	38.3
Hippoglossoides elassodon - egg	34	1.0	694	26.6
Theragra chalcogramma - larva	26	1.0	531	20.3
Bathymaster spp. - larva	15	1.0	306	11.7
Ammodytes hexapterus - larva	2	1.0	41	1.6
Psettichthys type 2 - larva	1	1.0	20	0.8
Theragra chalcogramma - egg	1	1.0	20	0.8
			2612	100.

SAMPLING INTERVAL                    VOLUME FILTERED  
30 - 45                                    53.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	158	1.0	2981	88.8
Hippoglossoides elassodon - larva	6	1.0	113	3.4
Hippoglossoides elassodon - egg	6	1.0	113	3.4
Ammodytes hexapterus - larva	4	1.0	75	2.2
Bathymaster spp. - larva	2	1.0	38	1.1
Theragra chalcogramma - egg	1	1.0	19	0.6
Zapora silensis - larva	1	1.0	19	0.6
			3358	100.

SAMPLING INTERVAL  
45 - 60

VOLUME FILTERED  
37.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	37	1.0	1000	94.9
Hippoglossoides elassodon - egg	1	1.0	27	2.6
Theragra chalcogramma - egg	1	1.0	27	2.6
			1054	100.

SAMPLING INTERVAL  
60 - 80

VOLUME FILTERED  
133.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - larva	2	1.0	15	33.3
Ammodytes hexapterus - larva	1	1.0	8	16.7
Theragra chalcogramma - larva	1	1.0	8	16.7
Theragra chalcogramma - egg	1	1.0	8	16.7
Poroclinus rothrocki - larva	1	1.0	8	16.7
			47	100.

SAMPLING INTERVAL  
80 - 99

VOLUME FILTERED  
109.0

NO EGGS OR LARVAE

SAMPLING INTERVAL  
99 - 125

VOLUME FILTERED  
109.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	4	1.0	37	80.0
Ammodytes hexapterus - larva	1	1.0	9	20.0
			46	100.

SAMPLING INTERVAL  
125 - 150

VOLUME FILTERED  
95.0

NO EGGS OR LARVAE

STA. 074            52 32.5 N            156 35.7 W            24 May 87            5:07

BOTTOM DEPTH    179            NET MESH 153 (see footnote)

SAMPLING INTERVAL            VOLUME FILTERED  
0 - 15                            76.8

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	108	1.0	1406	42.2
Bathymaster spp. - larva	84	1.0	1094	32.8
Hippoglossoides elassodon - larva	39	1.0	508	15.2
Hippoglossoides elassodon - egg	21	1.0	273	8.2
Sebastes spp. - larva	1	1.0	13	0.4
Gadus macrocephalus - larva	1	1.0	13	0.4
Ammodytes hexapterus - larva	1	1.0	13	0.4
Theragra chalcogramma - egg	1	1.0	13	0.4
			3333	100.

SAMPLING INTERVAL            VOLUME FILTERED  
16 - 31                            82.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	12	1.0	146	33.3
Bathymaster spp. - larva	10	1.0	122	27.8
Hippoglossoides elassodon - egg	7	1.0	85	19.4
Hippoglossoides elassodon - larva	4	1.0	49	11.1
Stenobranchius leucopsarus - larva	3	1.0	37	8.3
			439	100.

SAMPLING INTERVAL            VOLUME FILTERED  
31 - 46                            116.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	19	1.0	164	65.5
Hippoglossoides elassodon - egg	9	1.0	78	31.0
Stenobranchius leucopsarus - larva	1	1.0	9	3.4
			251	100.

SAMPLING INTERVAL            VOLUME FILTERED  
46 - 60                            87.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	4	1.0	46	57.1
Sebastes spp. - larva	1	1.0	11	14.3
Agonidae - larva	1	1.0	11	14.3

Theragra chalcogramma - egg	1	1.0	11	14.3
			79	100.

SAMPLING INTERVAL                      VOLUME FILTERED  
60 - 81                                      127.0

Taxon	Number counted	Sub/fac	No./1000m3	%
Theragra chalcogramma - larva	1	1.0	8	50.0
Hippoglossoides elassodon - egg	1	1.0	8	50.0
			16	100.

SAMPLING INTERVAL                      VOLUME FILTERED  
81 - 101                                      131.0

Taxon	Number counted	Sub/fac	No./1000m3	%
Theragra chalcogramma - larva	2	1.0	15	100.0
			15	100.

SAMPLING INTERVAL                      VOLUME FILTERED  
101 - 124                                      110.0

Taxon	Number counted	Sub/fac	No./1000m3	%
Theragra chalcogramma - egg	2	1.0	18	66.7
Theragra chalcogramma - larva	1	1.0	9	33.3
			27	100.

SAMPLING INTERVAL                      VOLUME FILTERED  
124 - 150                                      116.0

Taxon	Number counted	Sub/fac	No./1000m3	%
Theragra chalcogramma - egg	7	1.0	60	87.5
Hippoglossoides elassodon - egg	1	1.0	9	12.5
			69	100.

NOTE: The 0-15m depth interval was sampled by a 60cm Bongo with 333  $\mu$ m mesh after MOCNESS failed to sample properly there.



STA. 075            56 33.5 N            156 32.6 W            24 May 87            10:19

BOTTOM DEPTH    195                    NET MESH 153

SAMPLING INTERVAL                    VOLUME FILTERED  
2 - 15                                    72.0

Taxon	Number counted	Sub/fac	No./1000m3	%
Hippoglossoides elassodon - egg	66	1.0	917	72.5
Theragra chalcogramma - larva	15	1.0	208	16.5
Hippoglossoides elassodon - larva	8	1.0	111	8.8
Bathymaster spp. - larva	1	1.0	14	1.1
Theragra chalcogramma - egg	1	1.0	14	1.1
			1264	100.

SAMPLING INTERVAL                    VOLUME FILTERED  
15 - 30                                    54.0

Taxon	Number counted	Sub/fac	No./1000m3	%
Theragra chalcogramma - larva	94	1.0	1741	62.7
Hippoglossoides elassodon - larva	24	1.0	444	16.0
Hippoglossoides elassodon - egg	18	1.0	333	12.0
Ammodytes hexapterus - larva	8	1.0	148	5.3
Bathymaster spp. - larva	4	1.0	74	2.7
Theragra chalcogramma - egg	1	1.0	19	0.7
Lyconectes aleutensis - larva	1	1.0	19	0.7
			2778	100.

SAMPLING INTERVAL                    VOLUME FILTERED  
30 - 47                                    98.0

Taxon	Number counted	Sub/fac	No./1000m3	%
Theragra chalcogramma - larva	11	1.0	112	42.3
Bathymaster spp. - larva	8	1.0	82	30.8
Ammodytes hexapterus - larva	3	1.0	31	11.5
Hippoglossoides elassodon - larva	2	1.0	20	7.7
Lepidopsetta bilineata - larva	1	1.0	10	3.8
Hippoglossoides elassodon - egg	1	1.0	10	3.8
			265	100.

SAMPLING INTERVAL                    VOLUME FILTERED  
47 - 60                                    34.0

Taxon	Number counted	Sub/fac	No./1000m3	%
Theragra chalcogramma - egg	1	1.0	29	100.0

-----  
29      100.

SAMPLING INTERVAL                      VOLUME FILTERED  
60 - 80                                      56.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	2	1.0	36	50.0
Disintegrated - larva	1	1.0	18	25.0
Hippoglossoides elassodon - egg	1	1.0	18	25.0
			-----	-----
			72	100.

SAMPLING INTERVAL                      VOLUME FILTERED  
80 - 101                                      103.0

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

SAMPLING INTERVAL                      VOLUME FILTERED  
101 - 125                                      217.0

NO EGGS OR LARVAE

SAMPLING INTERVAL                      VOLUME FILTERED  
125 - 150                                      109.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - larva	1	1.0	9	50.0
Hippoglossoides elassodon - egg	1	1.0	9	50.0
			-----	-----
			18	100.

STA. 076            56 33.8 N        156 33.0 W        24 May 87        16:00

BOTTOM DEPTH    190                    NET MESH 153

SAMPLING INTERVAL                    VOLUME FILTERED  
1 - 14                                    171.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - larva	50	1.0	292	61.0
Hippoglossoides elassodon - egg	17	1.0	99	20.7
Theragra chalcogramma - larva	8	1.0	47	9.8
Bathymaster spp. - larva	6	1.0	35	7.3
Gadus macrocephalus - larva	1	1.0	6	1.2
			479	100.

SAMPLING INTERVAL                    VOLUME FILTERED  
14 - 30                                    94.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	36	1.0	383	44.4
Hippoglossoides elassodon - egg	27	1.0	287	33.3
Hippoglossoides elassodon - larva	15	1.0	160	18.5
Agonidae - larva	1	1.0	11	1.2
Theragra chalcogramma - egg	1	1.0	11	1.2
Cyclopteridae - larva	1	1.0	11	1.2
			863	100.

SAMPLING INTERVAL                    VOLUME FILTERED  
30 - 46                                    51.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	16	1.0	314	66.7
Hippoglossoides elassodon - egg	5	1.0	98	20.8
Pleuronectidae - egg	1	1.0	20	4.2
Hippoglossoides elassodon - larva	1	1.0	20	4.2
Theragra chalcogramma - egg	1	1.0	20	4.2
			472	100.

SAMPLING INTERVAL                    VOLUME FILTERED  
46 - 60                                    77.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - egg	1	1.0	13	33.3
Theragra chalcogramma - egg	1	1.0	13	33.3
Theragra chalcogramma - larva	1	1.0	13	33.3

SAMPLING INTERVAL		VOLUME FILTERED			
60 - 81		161.0		39	100.
Taxon	Number counted	Sub/fac	No./1000m3	%	
Theragra chalcogramma - egg	3	1.0	19	75.0	
Protomyctophum thompsoni - larva	1	1.0	6	25.0	
			25	100.	
SAMPLING INTERVAL		VOLUME FILTERED			
81 - 100		123.0			
Taxon	Number counted	Sub/fac	No./1000m3	%	
Theragra chalcogramma - egg	4	1.0	33	80.0	
Theragra chalcogramma - larva	1	1.0	8	20.0	
			41	100.	
SAMPLING INTERVAL		VOLUME FILTERED			
100 - 124		106.0			
Taxon	Number counted	Sub/fac	No./1000m3	%	
Theragra chalcogramma - egg	2	1.0	19	100.0	
			19	100.	
SAMPLING INTERVAL		VOLUME FILTERED			
124 - 150		99.0			
Taxon	Number counted	Sub/fac	No./1000m3	%	
Hippoglossoides elassodon - egg	2	1.0	20	50.0	
Theragra chalcogramma - egg	1	1.0	10	25.0	
Theragra chalcogramma - larva	1	1.0	10	25.0	
			40	100.	

STA. 077            56 34.1 N            156 32.9 W            24 May 87            23:43

BOTTOM DEPTH    190            NET MESH 153

SAMPLING INTERVAL            VOLUME FILTERED  
2 - 15                            81.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - larva	49	1.0	605	37.7
Theragra chalcogramma - larva	36	1.0	444	27.7
Hippoglossoides elassodon - egg	35	1.0	432	26.9
Anoplarchus spp. - larva	3	1.0	37	2.3
Bathymaster spp. - larva	3	1.0	37	2.3
Theragra chalcogramma - egg	1	1.0	12	0.8
Ammodytes hexapterus - larva	1	1.0	12	0.8
Gadidae - larva	1	1.0	12	0.8
Disintegrated - larva	1	1.0	12	0.8
			1603	100.

SAMPLING INTERVAL            VOLUME FILTERED  
15 - 30                            83.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	26	1.0	313	44.8
Hippoglossoides elassodon - egg	23	1.0	277	39.7
Hippoglossoides elassodon - larva	8	1.0	96	13.8
Bathymaster spp. - larva	1	1.0	12	1.7
			698	100.

SAMPLING INTERVAL            VOLUME FILTERED  
30 - 45                            69.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	98	1.0	1420	75.4
Hippoglossoides elassodon - egg	25	1.0	362	19.2
Poroclinus rothrocki - larva	5	1.0	72	3.8
Stenobranchius leucopsarus - larva	1	1.0	14	0.8
Theragra chalcogramma - egg	1	1.0	14	0.8
			1882	100.

SAMPLING INTERVAL            VOLUME FILTERED  
45 - 60                            66.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	24	1.0	364	80.0

Hippoglossoides elassodon - egg	5	1.0	76	16.7
Theragra chalcogramma - egg	1	1.0	15	3.3
			-----	-----
			455	100.

SAMPLING INTERVAL                      VOLUME FILTERED  
60 - 80                                      123.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Agonidae - larva	1	1.0	8	50.0
Theragra chalcogramma - larva	1	1.0	8	50.0
			-----	-----
			16	100.

SAMPLING INTERVAL                      VOLUME FILTERED  
80 - 101                                    167.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - larva	1	1.0	6	100.0
			-----	-----
			6	100.

SAMPLING INTERVAL                      VOLUME FILTERED  
101 - 124                                   126.0

NO EGGS OR LARVAE

SAMPLING INTERVAL                      VOLUME FILTERED  
124 - 151                                   141.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Hippoglossoides elassodon - larva	2	1.0	14	100.0
			-----	-----
			14	100.

STA. 078            56 34.0 N        156 32.5 W        25 May 87            5:22

BOTTOM DEPTH    196                    NET MESH 153

SAMPLING INTERVAL                    VOLUME FILTERED  
1 - 15                                    75.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - egg	69	1.0	920	38.3
Theragra chalcogramma - larva	46	1.0	613	25.6
Hippoglossoides elassodon - larva	33	1.0	440	18.3
Bathymaster spp. - larva	26	1.0	347	14.4
Theragra chalcogramma - egg	4	1.0	53	2.2
Poroclinus rothrocki - larva	1	1.0	13	0.6
Zapora silensis - larva	1	1.0	13	0.6
			2399	100.

SAMPLING INTERVAL                    VOLUME FILTERED  
15 - 32                                    82.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	301	1.0	3671	86.5
Hippoglossoides elassodon - egg	21	1.0	256	6.0
Bathymaster spp. - larva	12	1.0	146	3.4
Theragra chalcogramma - egg	7	1.0	85	2.0
Gadidae - larva	2	1.0	24	0.6
Hippoglossoides elassodon - larva	2	1.0	24	0.6
Stenobranchius leucopsarus - larva	1	1.0	12	0.3
Lepidopsetta bilineata - larva	1	1.0	12	0.3
Agonidae - larva	1	1.0	12	0.3
			4242	100.

SAMPLING INTERVAL                    VOLUME FILTERED  
32 - 46                                    95.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	46	1.0	484	90.2
Theragra chalcogramma - egg	2	1.0	21	3.9
Hippoglossoides elassodon - larva	2	1.0	21	3.9
Hippoglossoides elassodon - egg	1	1.0	11	2.0
			537	100.

SAMPLING INTERVAL  
46 - 60

VOLUME FILTERED  
56.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	2	1.0	36	40.0
Theragra chalcogramma - egg	2	1.0	36	40.0
Hippoglossoides elassodon - egg	1	1.0	18	20.0
			90	100.

SAMPLING INTERVAL  
60 - 81

VOLUME FILTERED  
102.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	2	1.0	20	66.7
Hippoglossoides elassodon - egg	1	1.0	10	33.3
			30	100.

SAMPLING INTERVAL  
81 - 102

VOLUME FILTERED  
93.0

NO EGGS OR LARVAE

SAMPLING INTERVAL  
102 - 126

VOLUME FILTERED  
284.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - egg	5	1.0	18	83.3
Hippoglossoides elassodon - egg	1	1.0	4	16.7
			22	100.

SAMPLING INTERVAL  
126 - 153

VOLUME FILTERED  
144.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - larva	2	1.0	14	50.0
Theragra chalcogramma - egg	1	1.0	7	25.0
Theragra chalcogramma - larva	1	1.0	7	25.0
			28	100.



STA. 079            56 33.6 N            156 32.2 W            25 May 87            10:18

BOTTOM DEPTH    198                    NET MESH 153

SAMPLING INTERVAL                    VOLUME FILTERED  
1 - 16                                    63.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - larva	64	1.0	1016	42.4
Hippoglossoides elassodon - egg	56	1.0	889	37.1
Theragra chalcogramma - larva	21	1.0	333	13.9
Ammodytes hexapterus - larva	2	1.0	32	1.3
Bathymaster spp. - larva	2	1.0	32	1.3
Theragra chalcogramma - egg	2	1.0	32	1.3
Pleuronectidae - larva	1	1.0	16	0.7
Anoplarchus spp. - larva	1	1.0	16	0.7
Agonidae - larva	1	1.0	16	0.7
Gadus macrocephalus - larva	1	1.0	16	0.7
			2398	100.

SAMPLING INTERVAL                    VOLUME FILTERED  
16 - 30                                    82.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Hippoglossoides elassodon - larva	207	1.0	2524	46.6
Theragra chalcogramma - larva	158	1.0	1927	35.6
Hippoglossoides elassodon - egg	54	1.0	659	12.2
Bathymaster spp. - larva	18	1.0	220	4.1
Poroclinus rothrocki - larva	1	1.0	12	0.2
Ammodytes hexapterus - larva	1	1.0	12	0.2
Zapora silensis - larva	1	1.0	12	0.2
Sebastes spp. - larva	1	1.0	12	0.2
Anoplarchus spp. - larva	1	1.0	12	0.2
Lumpenus maculatus - larva	1	1.0	12	0.2
Gadus macrocephalus - larva	1	1.0	12	0.2
			5414	100.

SAMPLING INTERVAL                    VOLUME FILTERED  
30 - 45                                    104.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
Theragra chalcogramma - larva	168	1.0	1615	72.4
Hippoglossoides elassodon - larva	40	1.0	385	17.2
Bathymaster spp. - larva	17	1.0	163	7.3
Poroclinus rothrocki - larva	2	1.0	19	0.9
Hippoglossoides elassodon - egg	2	1.0	19	0.9
Mallotus villosus - larva	1	1.0	10	0.4
Theragra chalcogramma - egg	1	1.0	10	0.4

Ammodytes hexapterus - larva	1	1.0	10	0.4
			-----	-----
			2231	100.

SAMPLING INTERVAL                      VOLUME FILTERED  
45 - 61                                      98.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Bathymaster spp. - larva	20	1.0	204	71.4
Theragra chalcogramma - larva	5	1.0	51	17.9
Hippoglossoides elassodon - larva	1	1.0	10	3.6
Ammodytes hexapterus - larva	1	1.0	10	3.6
Lumpenus maculatus - larva	1	1.0	10	3.6
			-----	-----
			285	100.

SAMPLING INTERVAL                      VOLUME FILTERED  
61 - 80                                      118.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Bathymaster spp. - larva	6	1.0	51	60.0
Theragra chalcogramma - larva	1	1.0	8	10.0
Hippoglossoides elassodon - larva	1	1.0	8	10.0
Gadidae - larva	1	1.0	8	10.0
Ammodytes hexapterus - larva	1	1.0	8	10.0
			-----	-----
			83	100.

SAMPLING INTERVAL                      VOLUME FILTERED  
80 - 100                                      101.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Bathymaster spp. - larva	3	1.0	30	42.9
Theragra chalcogramma - egg	1	1.0	10	14.3
Ammodytes hexapterus - larva	1	1.0	10	14.3
Icelus sp. - larva	1	1.0	10	14.3
Hippoglossoides elassodon - egg	1	1.0	10	14.3
			-----	-----
			70	100.

SAMPLING INTERVAL                      VOLUME FILTERED  
100 - 124                                      192.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - larva	3	1.0	16	100.0
			-----	-----
			16	100.

SAMPLING INTERVAL  
124 - 149

VOLUME FILTERED  
81.0

Taxon	Number counted	Sub/ fac	No./ 1000m3	%
-----	-----	-----	-----	-----
Theragra chalcogramma - egg	1	1.0	12	100.0
			-----	-----
			12	100.