



**Northwest and  
Alaska Fisheries  
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## **NWAFRC PROCESSED REPORT 88-22**

**Zooplankton of Shelikof Strait, Alaska,  
March to October 1985:**

**Results of Fishery  
Oceanography Experiment (FOX)**

**August 1988**

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Zooplankton of Shelikof Strait, Alaska, March to October 1985:  
Results of Fishery Oceanography Experiment (FOX)

by

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## INTRODUCTION

The data in this report were collected during 1985 as part of the Fishery Oceanography Experiment (FOX), which initiated studies of the biological and physical parameters affecting recruitment of pollock, Theragra chalcogramma, in the northern Gulf of Alaska. In 1986, these studies were formally incorporated into a larger NOAA program entitled Fisheries-Oceanography Coordinated Investigations (FOCI).

The studies reported on here examined zooplankton community composition and abundance in the Shelikof Strait region during March, April, May, July and October 1985. Wilson et al. (1986) provided details of the research cruises conducted at those times, including other sampling activities. Additional Processed Reports are planned for similar zooplankton data collected during 1986 and 1987.

## METHODS

The area of the Gulf of Alaska covered by this study is shown in Figure 1, and locations of stations sampled during each of the five cruises are illustrated in Figures 2-6. The majority of sampling was done in Shelikof Strait, south of Cape Kekurnoi and north of Chirikof Island. On each cruise an attempt was made to repeatedly sample stations on lines between Cape Kekurnoi and

Kodiak Island (line 8), between Sutwik and the Semidi Islands, and between the Semidi Islands and Chirikof Island to provide time series data on zooplankton. During two of the cruises, samples were collected in a grid-like pattern to investigate spatial distribution of zooplankton.

Plankton samples were obtained by double-oblique tows of 60-cm bongo samplers equipped with 333  $\mu$ m mesh nets (Posgay and Marak 1980). Mechanical flowmeters were installed in the mouth of each net to estimate the volume of water filtered by the nets; and a bathykymograph (BKG) was used to record maximum sampling depth and to verify that sampling trajectories were not biased. Tows were taken from surface to near bottom (generally within 10-15 m or less), with two exceptions: stations 31 and 34 during July. These tows were purposely directed at the upper 100 m. Samples were preserved in 5% buffered formalin:seawater for later analysis.

In the laboratory, organisms were sorted into taxonomic categories selected to describe the seasonal development and spatial distribution of zooplankton communities in Shelikof Strait, emphasizing the most abundant species. A list of these taxa is given in Table 1, with definitions of abbreviations used throughout this report.

Samples were sorted at the Northwest and Alaska Fisheries Center in Seattle and the Polish Sorting Center in Szczecin,

Poland. Identifications made in Poland were verified by a biologist in Seattle. Samples processed in Poland had ichthyoplankton removed prior to analysis; whereas ichthyoplankton (identified only as Teleostei eggs and larvae) were included in analyses of samples processed in Seattle. Otherwise, the sorting procedures described below were followed at both laboratories. Prior to splitting a sample, organisms like large shrimp, fish and jellyfish were removed and noted. Then a sample was split with a Folsom plankton splitter to obtain a subsample with about 100-200 organisms  $\geq 5\text{mm}$  in their maximum dimension, but splits were no smaller than  $1/64$  of the original sample. With a few exceptions (decapod larvae, euphausiid furcilliae and larvaceans), these "large organisms" were removed from the sample, identified and tabulated. Next, one or two smaller subsamples were examined for all remaining taxa. The first small subsample was taken so as to obtain approximately 300-500 organisms. This subsample often provided sufficient counts (at least 30) of most of the taxa. If it did not, then a second subsample was sorted for these organisms.

## RESULTS

Data summaries for each cruise covered by this report are provided in Tables 2-6. The summary for a particular cruise is identified by cruise number and dates and consists of: the number of samples examined; the rank order of abundance for each taxon present in these samples; the percentage of samples in

which a taxon was found; and the mean, standard deviation, and maximum and minimum of a taxon's concentration (no. per  $m^2$ ) in all samples collected during that cruise.

In addition to the cruise data summaries, a list of taxa found in each sample is contained in Appendices 1-5. Taxa are listed in order of abundance and each list includes: the number of organisms counted; the fraction of the sample from which they were counted (sub/fac); their concentration per  $10m^3$  and  $m^2$ ; and the percent of organisms that they represent in the sample. Samples are identified by station numbers (in the appendices stations may include letter designations that do not appear in the figures). In each appendix, location is given to tenths of a degree of latitude and longitude, date and time are GMT, station depth and sample intervals are in meters, volume filtered is expressed in cubic meters and net mesh is in micrometers.

With some taxonomic categories, we typically did not spend the time to identify and record all species encountered. However, notes were kept on most abundant species in these categories. These species are listed in Table 7.

## DISCUSSION

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

net of 333 um mesh. The width of the widest opening in the net (the diagonal measure) is 471 um (Miller et al. 1984), 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; copepod nauplii; euphausiid nauplii; early copepodite stages of most copepod species; and all stages of Pseudocalanus, Oithona, Acartia and other small copepods. Data for some other taxa are not quantitative because of the effects of sampling and preservation on their structure. These taxa include the gelatinous zooplankton (ie. cnidarian medusae and larvaceans). The sample splitting process also affects estimates of thecosomate pteropods because they do not stay suspended in the sample. Finally, ichthyoplankton data from the April and May cruises are not reported on here (see Methods), but they have been analyzed in more detail and are being used in other studies.

## ACKNOWLEDGMENTS

We thank all FOCI participants for their help with collections and other cruise details. We also thank the officers and crews aboard the NOAA ships Miller Freeman and Discoverer for their efforts and the staff at the sorting center in Szczecin, Poland. We gratefully acknowledge Jay Clark for providing station data and mapping programs, Karen Conlan and staff for graphics, and Susan Fauska and her staff for final report preparation.

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Table 1. Taxonomic and size/life history stage categories identified in zooplankton samples from Shelikof Strait.

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

Table 1. Continued

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

Table 1. Continued

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

\* Life history stage abbreviations:

F= female

M= male

C= copepodite

A&J= adults and juveniles combined

blank= stage not determined

\*\*= uncertain as to identification

Table 2. Zooplankton data summary for FOX85-I, cruise 1DI85 in Shelikof Strait, 12-28 March 1985.

CRUISE 1DI85  
12-28 Mar '85  
Summary of 40 samples sorted

| Taxon                        | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |        |      |     |
|------------------------------|-----------------------------------------------|-------------------------|--------|------|-----|
|                              |                                               | Mean                    | s.d.   | max  | min |
| Pseudocalanus spp. - adult F | 100.0                                         | 1754.0                  | 1548.2 | 5925 | 10  |
| Neocalanus plumchrus C-2     | 97.5                                          | 1425.9                  | 1327.2 | 6158 | 0   |
| Other Copepoda <2mm          | 100.0                                         | 1423.8                  | 1539.2 | 6868 | 7   |
| Calanus marshallae - adult F | 97.5                                          | 1142.5                  | 2039.0 | 8902 | 0   |
| Metridia pacifica - adult F  | 100.0                                         | 965.1                   | 1229.3 | 4312 | 1   |
| Ostracoda <5mm               | 72.5                                          | 601.5                   | 1242.2 | 6778 | 0   |
| Other Copepoda 2-5mm         | 75.0                                          | 455.6                   | 730.1  | 3512 | 0   |
| Metridia pacifica C-4        | 100.0                                         | 448.5                   | 624.6  | 3253 | 1   |
| Calanus pacificus C-5        | 90.0                                          | 341.7                   | 660.2  | 3626 | 0   |
| Calanus marshallae - adult M | 82.5                                          | 316.5                   | 490.8  | 1874 | 0   |
| Oithona spp.                 | 97.5                                          | 305.8                   | 358.5  | 1757 | 0   |
| Chaetognatha 5-20mm          | 95.0                                          | 293.9                   | 1028.6 | 6492 | 0   |
| Metridia pacifica - adult M  | 77.5                                          | 293.3                   | 391.2  | 1597 | 0   |
| Metriididae C-3              | 97.5                                          | 289.1                   | 428.8  | 2499 | 0   |
| Neocalanus plumchrus C-3     | 72.5                                          | 223.4                   | 853.4  | 5308 | 0   |
| Cnidaria - medusa <5mm       | 80.0                                          | 172.5                   | 214.2  | 853  | 0   |
| Neocalanus plumchrus C-1     | 87.5                                          | 141.0                   | 161.5  | 699  | 0   |
| Metridia pacifica C-5 M      | 97.5                                          | 136.2                   | 286.3  | 1797 | 0   |
| Thysanoessa inermis A&J      | 77.5                                          | 131.2                   | 206.8  | 1086 | 0   |
| Gammaridea <5mm              | 52.5                                          | 106.7                   | 219.5  | 1124 | 0   |
| Metridia pacifica C-5 F      | 80.0                                          | 97.6                    | 123.3  | 653  | 0   |
| Calanus marshallae C-5       | 62.5                                          | 79.1                    | 163.7  | 843  | 0   |
| Siphonophora <5mm            | 57.5                                          | 76.4                    | 144.4  | 718  | 0   |
| Invertebrata - egg <5mm      | 20.0                                          | 72.4                    | 188.2  | 932  | 0   |
| Thecosomata <5mm             | 80.0                                          | 72.0                    | 93.5   | 490  | 0   |
| Thysanoessa spinifera A&J    | 82.5                                          | 57.4                    | 83.8   | 393  | 0   |
| Euphausiacea pacifica A&J    | 67.5                                          | 56.3                    | 186.8  | 1126 | 0   |
| Eucalanus bungii - adult F   | 50.0                                          | 54.7                    | 252.8  | 1592 | 0   |
| Hyperiidea <5mm              | 65.0                                          | 44.5                    | 91.9   | 522  | 0   |
| Pseudocalanus spp. - adult M | 65.0                                          | 41.5                    | 62.7   | 258  | 0   |
| Larvacea                     | 37.5                                          | 39.5                    | 67.1   | 258  | 0   |
| Neocalanus cristatus C-2     | 55.0                                          | 37.5                    | 80.2   | 417  | 0   |
| Cnidaria - medusa >5mm       | 75.0                                          | 37.3                    | 48.8   | 234  | 0   |
| Neocalanus cristatus C-5     | 50.0                                          | 37.0                    | 106.2  | 612  | 0   |
| Pseudocalanus spp. C-5 F     | 75.0                                          | 35.7                    | 39.0   | 160  | 0   |
| Acartia spp.                 | 82.5                                          | 35.5                    | 38.4   | 183  | 0   |
| Cirripedia - nauplius <5mm   | 30.0                                          | 34.4                    | 95.5   | 401  | 0   |
| Gammaridea >5mm              | 57.5                                          | 32.9                    | 65.4   | 311  | 0   |
| Eucalanus bungii C-5 F       | 62.5                                          | 29.0                    | 64.3   | 367  | 0   |
| Neocalanus cristatus C-3     | 47.5                                          | 28.6                    | 91.3   | 572  | 0   |
| Chaetognatha <5mm            | 22.5                                          | 28.0                    | 129.3  | 817  | 0   |
| Eucalanus bungii C-5 M       | 62.5                                          | 27.8                    | 88.2   | 531  | 0   |
| Mysidacea <5mm               | 12.5                                          | 27.3                    | 129.1  | 806  | 0   |

Table 2. Continued

CRUISE 1DI85  
12-28 Mar 85  
Summary of 40 samples sorted

| Taxon                          | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |      |     |     |
|--------------------------------|-----------------------------------------------|-------------------------|------|-----|-----|
|                                |                                               | Mean                    | s.d. | max | min |
| Siphonophora >5mm              | 67.5                                          | 27.0                    | 42.9 | 204 | 0   |
| Neocalanus plumchrus - adult F | 40.0                                          | 25.5                    | 63.1 | 367 | 0   |
| Pseudocalanus spp. C-5 M       | 60.0                                          | 24.2                    | 50.7 | 291 | 0   |
| Chaetognatha >20mm             | 55.0                                          | 21.4                    | 50.5 | 259 | 0   |
| Teleostei - egg <5mm           | 12.5                                          | 21.1                    | 99.2 | 621 | 0   |
| Calanus pacificus - adult F    | 77.5                                          | 21.0                    | 33.0 | 185 | 0   |
| Eucalanus bungii - adult M     | 55.0                                          | 20.9                    | 66.5 | 408 | 0   |
| Anomura - larva                | 37.5                                          | 15.8                    | 38.4 | 163 | 0   |
| Eucalanus bungii C-4 F         | 42.5                                          | 14.2                    | 29.3 | 163 | 0   |
| Other Copepoda >5mm            | 42.5                                          | 13.7                    | 23.1 | 82  | 0   |
| Metriididae C-2                | 27.5                                          | 12.6                    | 34.1 | 163 | 0   |
| Gastropoda <5mm                | 15.0                                          | 12.0                    | 42.8 | 245 | 0   |
| Natantia - larva               | 22.5                                          | 10.2                    | 32.1 | 149 | 0   |
| Polychaeta >5mm                | 37.5                                          | 9.9                     | 30.6 | 163 | 0   |
| Eucalanus bungii C-4 M         | 30.0                                          | 9.5                     | 19.4 | 69  | 0   |
| Hyperiididae >5mm              | 57.5                                          | 9.4                     | 14.7 | 50  | 0   |
| Polychaeta <5mm                | 17.5                                          | 7.6                     | 27.1 | 163 | 0   |
| Mysidacea >5mm                 | 40.0                                          | 7.2                     | 13.2 | 59  | 0   |
| Neocalanus cristatus C-1       | 7.5                                           | 6.5                     | 29.0 | 167 | 0   |
| Calanus pacificus - adult M    | 50.0                                          | 6.1                     | 12.3 | 62  | 0   |
| Thysanoessa raschii A&J        | 32.5                                          | 6.0                     | 27.3 | 173 | 0   |
| Gymnosomata <5mm               | 20.0                                          | 5.5                     | 15.6 | 80  | 0   |
| Other Copepoda damaged         | 12.5                                          | 5.2                     | 18.8 | 107 | 0   |
| Euphausiacea - furcilia        | 17.5                                          | 5.0                     | 21.0 | 131 | 0   |
| Eucalanus bungii C-3           | 15.0                                          | 4.1                     | 14.8 | 82  | 0   |
| Gastropoda - veliger <5mm      | 20.0                                          | 3.9                     | 9.9  | 39  | 0   |
| Euphausiacea A&J damaged       | 25.0                                          | 3.8                     | 13.5 | 80  | 0   |
| Neocalanus plumchrus - adult M | 10.0                                          | 3.6                     | 14.4 | 82  | 0   |
| Calanus marshallae C-4         | 7.5                                           | 3.4                     | 15.2 | 82  | 0   |
| Gymnosomata >5mm               | 22.5                                          | 3.1                     | 15.1 | 95  | 0   |
| Neocalanus cristatus C-4       | 47.5                                          | 2.9                     | 5.0  | 18  | 0   |
| Thysanoessa longipes A&J       | 20.0                                          | 2.6                     | 13.0 | 82  | 0   |
| Brachyura - larva              | 15.0                                          | 2.6                     | 7.9  | 37  | 0   |
| Tessarabrachion oculatum A&J   | 5.0                                           | 2.3                     | 10.3 | 52  | 0   |
| Cirripedia - cypris <5mm       | 10.0                                          | 2.0                     | 7.6  | 36  | 0   |
| Teleostei - larva >5mm         | 22.5                                          | 1.9                     | 5.5  | 32  | 0   |
| Other zooplankton <5mm         | 10.0                                          | 1.8                     | 5.9  | 25  | 0   |
| Nematoda >5mm                  | 32.5                                          | 1.5                     | 4.3  | 21  | 0   |
| Cumacea <5mm                   | 5.0                                           | 1.2                     | 6.6  | 42  | 0   |
| Invertebrata <5mm              | 7.5                                           | 1.2                     | 4.4  | 19  | 0   |
| Neocalanus plumchrus C-5       | 12.5                                          | 1.0                     | 3.9  | 19  | 0   |
| Bryozoa - cyphonautes <5mm     | 2.5                                           | 1.0                     | 6.5  | 41  | 0   |
| Euphausiacea - calyptopis 2    | 7.5                                           | 0.9                     | 3.6  | 18  | 0   |



Table 2. Continued

CRUISE 1DI85  
12-28 Mar 85  
Summary of 40 samples sorted

| Taxon                     | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |      |     |     |
|---------------------------|-----------------------------------------------|-------------------------|------|-----|-----|
|                           |                                               | Mean                    | s.d. | max | min |
| Neocalanus plumchrus C-4  | 15.0                                          | 0.8                     | 3.2  | 19  | 0   |
| Pseudocalanus spp. C-4 F  | 10.0                                          | 0.7                     | 3.6  | 23  | 0   |
| Foraminifera <5mm         | 2.5                                           | 0.7                     | 4.4  | 28  | 0   |
| Other Copepoda - nauplius | 2.5                                           | 0.6                     | 3.9  | 25  | 0   |
| Bivalvia <5mm             | 2.5                                           | 0.6                     | 3.9  | 25  | 0   |
| Pseudocalanus spp. C-4 M  | 5.0                                           | 0.5                     | 2.9  | 18  | 0   |
| Radiolaria <5mm           | 2.5                                           | 0.5                     | 3.0  | 19  | 0   |
| Other zooplankton >5mm    | 7.5                                           | 0.3                     | 1.7  | 10  | 0   |
| Eucalanus bungii C-2      | 2.5                                           | 0.3                     | 1.6  | 10  | 0   |
| Eucalanus bungii C-1      | 2.5                                           | 0.3                     | 1.6  | 10  | 0   |
| Thysanoessa inspinata A&J | 12.5                                          | 0.2                     | 0.7  | 3   | 0   |
| ?Pseudocalanus spp. C-2   | 2.5                                           | 0.1                     | 0.8  | 5   | 0   |
| Cladocera <5mm            | 2.5                                           | 0.1                     | 0.8  | 5   | 0   |
| Teleostei - larva <5mm    | 2.5                                           | 0.1                     | 0.7  | 5   | 0   |
| Metriididae C-1           | 2.5                                           | 0.0                     | 0.2  | 2   | 0   |
| Calanus pacificus C-4     | 2.5                                           | 0.0                     | 0.2  | 2   | 0   |
| Gastropoda >5mm           | 2.5                                           | 0.0                     | 0.2  | 1   | 0   |
| Natantia A&J >5mm         | 2.5                                           | 0.0                     | 0.1  | 1   | 0   |

Table 3. Zooplankton data summary for FOX85-II, cruise 1MF85 in Shelikof Strait, 1-12 April 1985.

CRUISE 1MF85  
1-12 Apr 85  
Summary of 4 samples sorted

| Taxon                        | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |        |       |      |
|------------------------------|-----------------------------------------------|-------------------------|--------|-------|------|
|                              |                                               | Mean                    | s.d.   | max   | min  |
| Teleostei - egg <5mm         | 100.0                                         | 13454.7                 | 9057.5 | 20688 | 830  |
| Neocalanus plumchrus C-3     | 100.0                                         | 8608.6                  | 5302.6 | 15684 | 3708 |
| Metridia pacifica C-4        | 100.0                                         | 5175.4                  | 3690.7 | 10510 | 2134 |
| Metridia pacifica C-5 F      | 100.0                                         | 4742.3                  | 2157.1 | 7006  | 2147 |
| Other Copepoda <2mm          | 100.0                                         | 4682.0                  | 4133.5 | 10878 | 2431 |
| Invertebrata - egg <5mm      | 100.0                                         | 4509.7                  | 3252.4 | 8685  | 1659 |
| Metridia pacifica C-5 M      | 100.0                                         | 4071.2                  | 2833.7 | 8297  | 2244 |
| Neocalanus plumchrus C-2     | 100.0                                         | 3896.6                  | 2601.2 | 6496  | 1171 |
| Ostracoda <5mm               | 100.0                                         | 3578.5                  | 2065.0 | 5073  | 645  |
| Neocalanus plumchrus C-4     | 100.0                                         | 3388.3                  | 1517.5 | 5011  | 1659 |
| Calanus pacificus C-5        | 100.0                                         | 3236.7                  | 1578.1 | 5465  | 2114 |
| Pseudocalanus spp. - adult F | 100.0                                         | 3037.0                  | 1977.1 | 5900  | 1561 |
| Metridiidae C-3              | 100.0                                         | 1907.5                  | 1140.8 | 3382  | 645  |
| Metridia pacifica - adult M  | 100.0                                         | 1397.7                  | 807.8  | 2537  | 740  |
| Metridia pacifica - adult F  | 100.0                                         | 901.7                   | 329.1  | 1268  | 488  |
| Oithona spp.                 | 100.0                                         | 751.8                   | 738.7  | 1844  | 211  |
| Pseudocalanus spp. C-5 M     | 100.0                                         | 699.8                   | 637.6  | 1585  | 195  |
| Other Copepoda damaged       | 100.0                                         | 687.8                   | 288.3  | 1057  | 371  |
| Other Copepoda 2-5mm         | 100.0                                         | 663.1                   | 238.2  | 951   | 369  |
| Calanus marshallae - adult F | 75.0                                          | 649.0                   | 1106.4 | 2305  | 0    |
| Pseudocalanus spp. - adult M | 100.0                                         | 641.4                   | 331.8  | 928   | 293  |
| Neocalanus cristatus C-3     | 50.0                                          | 623.7                   | 794.9  | 1659  | 0    |
| Thecosomata <5mm             | 100.0                                         | 560.7                   | 138.1  | 683   | 369  |
| Larvacea                     | 100.0                                         | 491.9                   | 174.3  | 740   | 369  |
| Pseudocalanus spp. C-5 F     | 75.0                                          | 367.2                   | 375.3  | 742   | 0    |
| Neocalanus plumchrus C-1     | 100.0                                         | 338.4                   | 197.2  | 557   | 98   |
| Siphonophora <5mm            | 75.0                                          | 302.8                   | 312.4  | 738   | 0    |
| Mysidacea <5mm               | 100.0                                         | 289.2                   | 74.3   | 390   | 211  |
| Chaetognatha 5-20mm          | 100.0                                         | 238.6                   | 118.1  | 403   | 145  |
| Neocalanus cristatus C-4     | 100.0                                         | 236.1                   | 52.8   | 307   | 182  |
| Chaetognatha <5mm            | 75.0                                          | 170.0                   | 159.5  | 371   | 0    |
| Gammaridea <5mm              | 100.0                                         | 143.5                   | 90.1   | 278   | 92   |
| Acartia spp.                 | 75.0                                          | 142.0                   | 117.6  | 277   | 0    |
| Cnidaria - medusa <5mm       | 75.0                                          | 141.4                   | 121.2  | 278   | 0    |
| Calanus marshallae - adult M | 50.0                                          | 115.4                   | 174.5  | 369   | 0    |
| Neocalanus cristatus C-5     | 100.0                                         | 108.7                   | 59.2   | 166   | 27   |
| Anomura - larva              | 50.0                                          | 71.8                    | 93.0   | 195   | 0    |
| Natantia - larva             | 50.0                                          | 69.3                    | 88.3   | 184   | 0    |
| Cnidaria - medusa >5mm       | 100.0                                         | 59.3                    | 15.5   | 79    | 46   |
| Chaetognatha >20mm           | 100.0                                         | 57.7                    | 34.1   | 104   | 23   |
| Thysanoessa inermis A&J      | 100.0                                         | 51.1                    | 52.3   | 122   | 8    |
| Pseudocalanus spp. C-4 F     | 50.0                                          | 49.5                    | 57.4   | 106   | 0    |
| Eucalanus bungii C-4 F       | 50.0                                          | 49.5                    | 57.4   | 106   | 0    |

Table 3. Continued

CRUISE 1MF85  
1-12 Apr 85  
Summary of 4 samples sorted

| Taxon                       | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |      |     |     |
|-----------------------------|-----------------------------------------------|-------------------------|------|-----|-----|
|                             |                                               | Mean                    | s.d. | max | min |
| Hyperidea <5mm              | 50.0                                          | 47.4                    | 54.8 | 98  | 0   |
| Euphausiacea - nauplius     | 25.0                                          | 46.4                    | 92.8 | 186 | 0   |
| Other zooplankton <5mm      | 25.0                                          | 46.1                    | 92.2 | 184 | 0   |
| Gammaridea >5mm             | 75.0                                          | 38.7                    | 34.5 | 79  | 0   |
| Mysidacea >5mm              | 100.0                                         | 36.7                    | 43.3 | 99  | 4   |
| Siphonophora >5mm           | 100.0                                         | 35.2                    | 24.8 | 59  | 12  |
| Eucalanus bungii - adult F  | 75.0                                          | 27.3                    | 25.5 | 61  | 0   |
| Calanus marshallae C-5      | 25.0                                          | 26.4                    | 52.8 | 106 | 0   |
| Gymnosomata <5mm            | 25.0                                          | 24.4                    | 48.8 | 98  | 0   |
| Bryozoa - cyphonautes <5mm  | 25.0                                          | 23.2                    | 46.4 | 93  | 0   |
| Teleostei - larva <5mm      | 25.0                                          | 23.2                    | 46.4 | 93  | 0   |
| Calanus pacificus - adult F | 25.0                                          | 23.0                    | 46.1 | 92  | 0   |
| Eucalanus bungii C-4 M      | 25.0                                          | 23.0                    | 46.1 | 92  | 0   |
| Pseudocalanus spp. C-4 M    | 25.0                                          | 23.0                    | 46.1 | 92  | 0   |
| Eucalanus bungii - adult M  | 100.0                                         | 17.7                    | 15.2 | 38  | 6   |
| Other Copepoda >5mm         | 100.0                                         | 17.0                    | 9.5  | 26  | 4   |
| Eucalanus bungii C-5 F      | 75.0                                          | 15.0                    | 15.4 | 34  | 0   |
| Thysanoessa spinifera A&J   | 75.0                                          | 11.9                    | 11.6 | 26  | 0   |
| Teleostei - larva >5mm      | 100.0                                         | 9.9                     | 5.0  | 17  | 7   |
| Eucalanus bungii C-5 M      | 75.0                                          | 9.3                     | 8.2  | 19  | 0   |
| Hyperidea >5mm              | 75.0                                          | 7.8                     | 6.1  | 13  | 0   |
| Nematoda >5mm               | 75.0                                          | 7.4                     | 8.6  | 20  | 0   |
| Euphausiacea pacifica A&J   | 50.0                                          | 6.7                     | 10.9 | 23  | 0   |
| Polychaeta >5mm             | 75.0                                          | 6.6                     | 5.0  | 12  | 0   |
| Invertebrata >5mm           | 25.0                                          | 1.5                     | 2.9  | 6   | 0   |
| Thysanoessa inspinata A&J   | 25.0                                          | 1.0                     | 2.0  | 4   | 0   |
| Thysanoessa longipes A&J    | 25.0                                          | 1.0                     | 2.0  | 4   | 0   |
| Gymnosomata >5mm            | 25.0                                          | 1.0                     | 1.9  | 4   | 0   |
| Euphausiacea A&J damaged    | 25.0                                          | 1.0                     | 1.9  | 4   | 0   |

Table 4. Zooplankton data summary for FOX85-III, cruise 2MF85 in Shelikof Strait, 1-12 May 1985.

CRUISE 2MF85  
1-12 May 85  
Summary of 59 samples sorted

| Taxon                        | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |        |       |     |
|------------------------------|-----------------------------------------------|-------------------------|--------|-------|-----|
|                              |                                               | Mean                    | s.d.   | max   | min |
| Neocalanus plumchrus C-4     | 100.0                                         | 7013.0                  | 6228.0 | 28168 | 173 |
| Pseudocalanus spp. - adult F | 100.0                                         | 6725.2                  | 5760.0 | 21912 | 148 |
| Neocalanus plumchrus C-5     | 100.0                                         | 6185.4                  | 6353.8 | 27067 | 20  |
| Metridia pacifica C-4        | 93.2                                          | 3865.2                  | 4638.7 | 21540 | 0   |
| Metridia pacifica - adult F  | 86.4                                          | 3771.6                  | 4457.0 | 21023 | 0   |
| Cirripedia - nauplius <5mm   | 71.2                                          | 3632.7                  | 6981.2 | 24489 | 0   |
| Pseudocalanus spp. C-5 F     | 98.3                                          | 3527.6                  | 3742.4 | 16476 | 0   |
| Pseudocalanus spp. C-5 M     | 100.0                                         | 3183.9                  | 3205.9 | 14645 | 99  |
| Metridia pacifica - adult M  | 76.3                                          | 3041.6                  | 4052.8 | 16111 | 0   |
| Pseudocalanus spp. - adult M | 94.9                                          | 2968.3                  | 3416.4 | 14178 | 0   |
| Neocalanus plumchrus C-3     | 93.2                                          | 2728.5                  | 2903.7 | 13913 | 0   |
| Metridia pacifica C-5 M      | 93.2                                          | 2723.4                  | 3229.0 | 13918 | 0   |
| Metridia pacifica C-5 F      | 89.8                                          | 2596.6                  | 3007.5 | 13486 | 0   |
| Invertebrata - egg <5mm      | 35.6                                          | 1883.4                  | 4455.8 | 22699 | 0   |
| Other Copepoda <2mm          | 94.9                                          | 1514.5                  | 1403.5 | 5478  | 0   |
| Larvacea                     | 54.2                                          | 1421.6                  | 3478.4 | 18914 | 0   |
| Ostracoda <5mm               | 61.0                                          | 1394.8                  | 2320.7 | 13177 | 0   |
| Metriididae C-3              | 88.1                                          | 1326.3                  | 1568.9 | 7997  | 0   |
| Neocalanus plumchrus C-2     | 94.9                                          | 1313.9                  | 1671.1 | 7953  | 0   |
| Euphausiacea - calyptopis-1  | 50.8                                          | 1294.2                  | 3196.1 | 18358 | 0   |
| Oithona spp.                 | 100.0                                         | 1201.6                  | 1432.3 | 6016  | 1   |
| Euphausiacea - nauplius      | 37.3                                          | 1034.8                  | 2983.7 | 16500 | 0   |
| Euphausiacea - calyptopis-2  | 52.5                                          | 905.7                   | 1973.3 | 8412  | 0   |
| Acartia spp.                 | 96.6                                          | 874.9                   | 1096.6 | 4942  | 0   |
| Other Copepoda 2-5mm         | 61.0                                          | 716.6                   | 1794.4 | 12549 | 0   |
| Thecosomata <5mm             | 79.7                                          | 672.4                   | 1120.8 | 6445  | 0   |
| Pseudocalanus spp. C-4 F     | 86.4                                          | 552.4                   | 641.4  | 2746  | 0   |
| Eucalanus bungii C-1         | 47.5                                          | 500.9                   | 1234.5 | 7468  | 0   |
| Calanus pacificus C-5        | 64.4                                          | 453.7                   | 906.4  | 4549  | 0   |
| Other Copepoda - nauplius    | 22.0                                          | 425.6                   | 1537.4 | 10795 | 0   |
| Eucalanus bungii C-2         | 45.8                                          | 397.5                   | 1136.3 | 5102  | 0   |
| Pseudocalanus spp. C-4 M     | 83.1                                          | 394.1                   | 629.1  | 3112  | 0   |
| Euphausiacea - calyptopis-3  | 40.7                                          | 289.7                   | 731.3  | 3882  | 0   |
| Calanus marshallae - adult F | 79.7                                          | 260.1                   | 721.6  | 4706  | 0   |
| Chaetognatha 5-20mm          | 100.0                                         | 257.7                   | 468.2  | 2530  | 2   |
| Neocalanus cristatus C-4     | 100.0                                         | 250.6                   | 224.9  | 846   | 1   |
| Neocalanus cristatus C-5     | 86.4                                          | 247.7                   | 300.4  | 1368  | 0   |
| Mysidacea <5mm               | 32.2                                          | 204.4                   | 395.1  | 1940  | 0   |
| Cirripedia - cypris <5mm     | 47.5                                          | 202.4                   | 390.2  | 1657  | 0   |
| Calanus marshallae C-3       | 61.0                                          | 189.8                   | 452.9  | 2651  | 0   |
| Gammaridea <5mm              | 27.1                                          | 181.8                   | 447.2  | 2196  | 0   |
| Bryozoa - cyphonautes <5mm   | 27.1                                          | 181.5                   | 500.7  | 2912  | 0   |
| Calanus marshallae C-2       | 59.3                                          | 175.9                   | 445.3  | 2912  | 0   |

Table 4. Continued

CRUISE 2MF85  
1-12 May 85  
Summary of 59 samples sorted

| Taxon                          | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |       |      |     |
|--------------------------------|-----------------------------------------------|-------------------------|-------|------|-----|
|                                |                                               | Mean                    | s.d.  | max  | min |
| Euphausiacea - furcilia        | 35.6                                          | 142.1                   | 484.1 | 2796 | 0   |
| Echinodermata - larva <5mm     | 20.3                                          | 134.9                   | 331.9 | 1479 | 0   |
| Eucalanus bungii C-3           | 22.0                                          | 131.9                   | 406.0 | 2070 | 0   |
| Polychaeta <5mm                | 27.1                                          | 108.5                   | 306.1 | 1573 | 0   |
| Neocalanus plumchrus C-1       | 49.2                                          | 105.8                   | 264.8 | 1281 | 0   |
| Natantia - larva               | 45.8                                          | 103.0                   | 188.9 | 844  | 0   |
| Siphonophora <5mm              | 23.7                                          | 98.8                    | 233.1 | 1142 | 0   |
| Hyperiidia <5mm                | 35.6                                          | 88.2                    | 155.5 | 644  | 0   |
| Gastropoda - veliger <5mm      | 25.4                                          | 83.7                    | 315.9 | 2265 | 0   |
| Calanus marshallae C-1         | 39.0                                          | 83.0                    | 309.2 | 2265 | 0   |
| Brachyura - larva              | 37.3                                          | 74.1                    | 202.6 | 1398 | 0   |
| Gammaridea >5mm                | 62.7                                          | 71.7                    | 119.5 | 529  | 0   |
| Calanus marshallae C-4         | 52.5                                          | 71.5                    | 178.7 | 994  | 0   |
| Cnidaria - medusa <5mm         | 25.4                                          | 55.6                    | 224.3 | 1289 | 0   |
| Calanus marshallae C-5         | 54.2                                          | 54.1                    | 104.0 | 459  | 0   |
| Eucalanus bungii - adult F     | 88.1                                          | 54.0                    | 64.8  | 333  | 0   |
| Chaetognatha <5mm              | 28.8                                          | 53.1                    | 110.1 | 379  | 0   |
| Chaetognatha >20mm             | 62.7                                          | 47.9                    | 86.4  | 344  | 0   |
| Anomura - larva                | 35.6                                          | 43.2                    | 104.0 | 647  | 0   |
| Thysanoessa inermis A&J        | 71.2                                          | 42.6                    | 79.8  | 359  | 0   |
| Cnidaria - medusa >5mm         | 81.4                                          | 41.1                    | 48.7  | 190  | 0   |
| Neocalanus cristatus C-3       | 20.3                                          | 32.7                    | 97.6  | 500  | 0   |
| Other zooplankton <5mm         | 11.9                                          | 32.5                    | 118.0 | 665  | 0   |
| ?Pseudocalanus spp. C-3        | 27.1                                          | 30.6                    | 71.8  | 366  | 0   |
| Calanus marshallae - adult M   | 54.2                                          | 29.6                    | 61.6  | 314  | 0   |
| Metriididae C-2                | 15.3                                          | 29.5                    | 112.2 | 725  | 0   |
| Foraminifera <5mm              | 6.8                                           | 25.0                    | 134.7 | 988  | 0   |
| Neocalanus plumchrus - adult M | 5.1                                           | 24.8                    | 131.5 | 742  | 0   |
| Calanus pacificus - adult F    | 47.5                                          | 24.3                    | 58.5  | 360  | 0   |
| Gymnosomata <5mm               | 16.9                                          | 21.4                    | 63.4  | 363  | 0   |
| Siphonophora >5mm              | 55.9                                          | 20.2                    | 33.5  | 167  | 0   |
| Teleostei - egg <5mm           | 15.3                                          | 20.2                    | 63.1  | 331  | 0   |
| Thysanoessa spinifera A&J      | 59.3                                          | 19.3                    | 49.3  | 359  | 0   |
| Other Copepoda >5mm            | 44.1                                          | 17.9                    | 30.3  | 126  | 0   |
| Teleostei - larva >5mm         | 37.3                                          | 17.8                    | 34.4  | 132  | 0   |
| Neocalanus cristatus C-2       | 8.5                                           | 15.6                    | 62.8  | 400  | 0   |
| Mysidacea >5mm                 | 33.9                                          | 15.3                    | 30.9  | 120  | 0   |
| Gastropoda <5mm                | 10.2                                          | 12.1                    | 43.2  | 219  | 0   |
| Eucalanus bungii C-4 M         | 11.9                                          | 10.8                    | 46.1  | 296  | 0   |
| Neocalanus cristatus C-1       | 6.8                                           | 10.2                    | 48.7  | 349  | 0   |
| Other Copepoda damaged         | 10.2                                          | 9.8                     | 49.7  | 369  | 0   |
| Invertebrata <5mm              | 13.6                                          | 9.5                     | 44.6  | 331  | 0   |
| Calanus pacificus - adult M    | 32.2                                          | 9.4                     | 22.5  | 115  | 0   |

Table 4. Continued

CRUISE 2MF85  
1-12 May 85  
Summary of 59 samples sorted

| Taxon                          | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |      |     |     |
|--------------------------------|-----------------------------------------------|-------------------------|------|-----|-----|
|                                |                                               | Mean                    | s.d. | max | min |
| Unidentified Calanoida C-3     | 1.7                                           | 9.1                     | 69.5 | 534 | 0   |
| Polychaeta >5mm                | 44.1                                          | 8.9                     | 19.5 | 111 | 0   |
| Eucalanus bungii C-4 F         | 11.9                                          | 8.8                     | 33.5 | 152 | 0   |
| Eucalanus bungii C-5 F         | 45.8                                          | 7.6                     | 15.3 | 90  | 0   |
| Hyperiididae >5mm              | 47.5                                          | 6.8                     | 11.7 | 59  | 0   |
| Euphausiacea pacifica A&J      | 28.8                                          | 6.1                     | 20.3 | 144 | 0   |
| Eucalanus bungii - adult M     | 32.2                                          | 4.6                     | 11.2 | 74  | 0   |
| Metriididae C-1                | 1.7                                           | 3.0                     | 22.7 | 175 | 0   |
| Eucalanus bungii C-5 M         | 32.2                                          | 2.4                     | 6.9  | 46  | 0   |
| Neocalanus plumchrus - adult F | 15.3                                          | 2.1                     | 9.8  | 74  | 0   |
| Gymnosomata >5mm               | 23.7                                          | 1.6                     | 5.9  | 42  | 0   |
| Euphausiacea A&J damaged       | 13.6                                          | 1.5                     | 5.3  | 25  | 0   |
| Thecosomata >5mm               | 1.7                                           | 1.4                     | 10.9 | 84  | 0   |
| Nematoda >5mm                  | 11.9                                          | 1.2                     | 3.8  | 20  | 0   |
| Other zooplankton >5mm         | 8.5                                           | 1.1                     | 4.7  | 30  | 0   |
| Thysanoessa raschii A&J        | 13.6                                          | 1.0                     | 3.4  | 20  | 0   |
| Teleostei - larva <5mm         | 1.7                                           | 0.8                     | 6.5  | 50  | 0   |
| Cumacea >5mm                   | 5.1                                           | 0.8                     | 4.0  | 24  | 0   |
| Unidentified Calanoida C-2     | 1.7                                           | 0.8                     | 5.8  | 45  | 0   |
| Neocalanus cristatus - adult F | 5.1                                           | 0.7                     | 3.5  | 24  | 0   |
| Thysanoessa inspinata A&J      | 6.8                                           | 0.5                     | 2.3  | 17  | 0   |
| Thysanoessa longipes A&J       | 8.5                                           | 0.3                     | 1.3  | 6   | 0   |
| Decapoda (Mollusca) >5mm       | 5.1                                           | 0.3                     | 1.5  | 9   | 0   |
| Natantia A&J >5mm              | 5.1                                           | 0.2                     | 1.1  | 6   | 0   |
| Ctenophora >5mm                | 1.7                                           | 0.2                     | 1.5  | 12  | 0   |
| Calanus pacificus C-4          | 1.7                                           | 0.0                     | 0.3  | 2   | 0   |

Table 5. Zooplankton data summary for FOX85-IV, cruise 2DI85 in Shelikof Strait, 24-28 July 1985.

CRUISE 2DI85  
24-28 Jul 85  
Summary of 9 samples sorted

| Taxon                          | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |         |       |      |
|--------------------------------|-----------------------------------------------|-------------------------|---------|-------|------|
|                                |                                               | Mean                    | s.d.    | max   | min  |
| Thecosomata <5mm               | 100.0                                         | 17609.6                 | 24525.2 | 79996 | 1170 |
| Pseudocalanus spp. - adult F   | 100.0                                         | 16158.2                 | 16742.9 | 52400 | 292  |
| Metridia pacifica - adult F    | 88.9                                          | 6432.1                  | 7712.4  | 22430 | 0    |
| Metridia pacifica C-4          | 100.0                                         | 5465.8                  | 4604.1  | 12743 | 10   |
| Metriididae C-3                | 100.0                                         | 4200.3                  | 3495.2  | 9718  | 19   |
| Metridia pacifica C-5 M        | 88.9                                          | 3860.3                  | 3058.4  | 7473  | 0    |
| Acartia spp.                   | 100.0                                         | 3835.9                  | 4807.3  | 14481 | 79   |
| Metridia pacifica C-5 F        | 77.8                                          | 3645.3                  | 4036.2  | 12483 | 0    |
| Pseudocalanus spp. - adult M   | 100.0                                         | 3179.6                  | 4171.8  | 13148 | 19   |
| Other Copepoda <2mm            | 100.0                                         | 2914.5                  | 2528.9  | 9146  | 438  |
| Pseudocalanus spp. C-5 M       | 88.9                                          | 2838.8                  | 4881.4  | 15625 | 0    |
| Oithona spp.                   | 100.0                                         | 2744.3                  | 2598.3  | 8967  | 321  |
| Pseudocalanus spp. C-5 F       | 100.0                                         | 2497.0                  | 3651.7  | 12004 | 88   |
| Other Copepoda 2-5mm           | 66.7                                          | 2141.3                  | 5146.1  | 15815 | 0    |
| Metridia pacifica - adult M    | 77.8                                          | 2103.0                  | 2895.5  | 8575  | 0    |
| Invertebrata - egg <5mm        | 66.7                                          | 2037.3                  | 3639.5  | 11052 | 0    |
| Neocalanus plumchrus C-5       | 77.8                                          | 1639.7                  | 1808.4  | 4266  | 0    |
| Calanus marshallae C-5         | 66.7                                          | 1593.2                  | 3044.4  | 9527  | 0    |
| Eucalanus bungii C-5 F         | 88.9                                          | 1448.3                  | 1387.0  | 3120  | 0    |
| Cirripedia - nauplius <5mm     | 55.6                                          | 1240.4                  | 2486.0  | 7609  | 0    |
| Cnidaria - medusa <5mm         | 100.0                                         | 1214.7                  | 1355.3  | 4641  | 381  |
| Eucalanus bungii C-5 M         | 100.0                                         | 1158.1                  | 1299.8  | 3716  | 1    |
| Hyperiidea <5mm                | 100.0                                         | 1132.1                  | 1269.9  | 4127  | 39   |
| Neocalanus plumchrus - adult F | 44.4                                          | 1127.6                  | 2147.0  | 6479  | 0    |
| Echinodermata - larva <5mm     | 77.8                                          | 993.5                   | 1612.3  | 5100  | 0    |
| Cnidaria - medusa >5mm         | 100.0                                         | 884.4                   | 520.9   | 1822  | 171  |
| Larvacea                       | 100.0                                         | 815.4                   | 1189.3  | 3811  | 19   |
| Ostracoda <5mm                 | 33.3                                          | 768.2                   | 1482.3  | 4383  | 0    |
| Cirripedia - cypris <5mm       | 66.7                                          | 724.7                   | 943.8   | 2857  | 0    |
| Calanus marshallae C-4         | 77.8                                          | 691.5                   | 919.7   | 2477  | 0    |
| Eucalanus bungii C-4 F         | 66.7                                          | 647.7                   | 864.8   | 2731  | 0    |
| Chaetognatha 5-20mm            | 100.0                                         | 621.2                   | 544.9   | 1849  | 38   |
| Eucalanus bungii C-4 M         | 66.7                                          | 532.8                   | 785.7   | 2536  | 0    |
| Brachyura - larva              | 88.9                                          | 504.7                   | 508.7   | 1324  | 0    |
| Euphausiacea - furcilia        | 88.9                                          | 425.4                   | 387.4   | 1067  | 0    |
| Chaetognatha <5mm              | 77.8                                          | 414.5                   | 671.1   | 2146  | 0    |
| Other Copepoda damaged         | 88.9                                          | 413.1                   | 541.1   | 1600  | 0    |
| Calanus marshallae C-3         | 66.7                                          | 368.0                   | 423.7   | 1143  | 0    |
| Gymnosomata <5mm               | 100.0                                         | 355.8                   | 206.6   | 776   | 98   |
| Eucalanus bungii C-3           | 77.8                                          | 349.7                   | 688.0   | 2146  | 0    |
| Calanus marshallae - adult F   | 55.6                                          | 248.4                   | 348.8   | 1023  | 0    |
| Cladocera <5mm                 | 33.3                                          | 186.7                   | 502.8   | 1524  | 0    |
| Calanus marshallae C-2         | 44.4                                          | 161.0                   | 343.8   | 1052  | 0    |



Table 5. Continued

CRUISE 2DI85  
24-28 Jul 85  
Summary of 9 samples sorted

| Taxon                          | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |       |      |     |
|--------------------------------|-----------------------------------------------|-------------------------|-------|------|-----|
|                                |                                               | Mean                    | s.d.  | max  | min |
| Foraminifera <5mm              | 44.4                                          | 160.9                   | 284.8 | 683  | 0   |
| Euphausiacea A&J damaged       | 22.2                                          | 158.7                   | 471.5 | 1416 | 0   |
| Siphonophora <5mm              | 55.6                                          | 121.4                   | 186.2 | 572  | 0   |
| Thysanoessa inermis A&J        | 77.8                                          | 117.7                   | 150.8 | 444  | 0   |
| Pseudocalanus spp. C-4 M       | 44.4                                          | 106.4                   | 156.0 | 381  | 0   |
| Chaetognatha >20mm             | 77.8                                          | 103.4                   | 127.9 | 356  | 0   |
| Calanus pacificus C-5          | 44.4                                          | 95.5                    | 166.4 | 390  | 0   |
| Hyperiidea >5mm                | 66.7                                          | 94.9                    | 142.3 | 390  | 0   |
| Calanus marshallae - adult M   | 22.2                                          | 90.3                    | 212.5 | 635  | 0   |
| Neocalanus cristatus C-5       | 77.8                                          | 88.9                    | 168.4 | 524  | 0   |
| Eucalanus bungii C-2           | 33.3                                          | 85.8                    | 196.1 | 585  | 0   |
| Polychaeta <5mm                | 33.3                                          | 85.6                    | 133.1 | 333  | 0   |
| Eucalanus bungii - adult F     | 77.8                                          | 82.4                    | 72.5  | 195  | 0   |
| Natantia - larva               | 33.3                                          | 75.0                    | 143.5 | 405  | 0   |
| Pseudocalanus spp. C-4 F       | 33.3                                          | 73.9                    | 118.7 | 317  | 0   |
| Euphausiacea pacifica A&J      | 77.8                                          | 73.9                    | 141.4 | 444  | 0   |
| Metriididae C-2                | 33.3                                          | 71.5                    | 121.2 | 324  | 0   |
| Gammaridea <5mm                | 22.2                                          | 67.7                    | 189.4 | 572  | 0   |
| Euphausiacea - nauplius        | 22.2                                          | 54.7                    | 127.8 | 381  | 0   |
| Mysidacea >5mm                 | 44.4                                          | 54.5                    | 77.9  | 214  | 0   |
| Anomura - larva                | 33.3                                          | 53.5                    | 125.7 | 381  | 0   |
| Polychaeta >5mm                | 77.8                                          | 48.5                    | 103.5 | 317  | 0   |
| Siphonophora >5mm              | 44.4                                          | 40.9                    | 73.6  | 191  | 0   |
| Other zooplankton <5mm         | 22.2                                          | 39.2                    | 78.0  | 191  | 0   |
| Euphausiacea - calyptopis-1    | 33.3                                          | 34.6                    | 68.9  | 191  | 0   |
| Eucalanus bungii - adult M     | 66.7                                          | 30.6                    | 50.2  | 119  | 0   |
| Neocalanus plumchrus - adult M | 22.2                                          | 29.8                    | 60.3  | 157  | 0   |
| Invertebrata <5mm              | 33.3                                          | 29.4                    | 45.2  | 111  | 0   |
| Bivalvia <5mm                  | 22.2                                          | 28.5                    | 61.7  | 178  | 0   |
| Gymnosomata >5mm               | 66.7                                          | 24.2                    | 32.6  | 95   | 0   |
| Unidentified Calanoida C-2     | 11.1                                          | 21.7                    | 65.0  | 195  | 0   |
| Other Copepoda - nauplius      | 22.2                                          | 21.3                    | 43.0  | 111  | 0   |
| Gastropoda - veliger <5mm      | 11.1                                          | 21.2                    | 63.5  | 191  | 0   |
| Euphausiacea - calyptopis-3    | 11.1                                          | 21.2                    | 63.5  | 191  | 0   |
| Gammaridea >5mm                | 33.3                                          | 18.5                    | 39.1  | 119  | 0   |
| Teleostei - larva >5mm         | 66.7                                          | 15.2                    | 19.4  | 61   | 0   |
| Neocalanus cristatus C-4       | 11.1                                          | 14.9                    | 44.7  | 134  | 0   |
| Natantia A&J >5mm              | 11.1                                          | 14.8                    | 44.4  | 133  | 0   |
| Thysanoessa spinifera A&J      | 66.7                                          | 13.0                    | 16.7  | 44   | 0   |
| Euphausiacea - calyptopis-2    | 22.2                                          | 11.2                    | 27.0  | 81   | 0   |
| Other Copepoda >5mm            | 33.3                                          | 11.0                    | 20.6  | 61   | 0   |
| Unidentified Calanoida C-3     | 11.1                                          | 10.8                    | 32.5  | 98   | 0   |
| Thysanoessa inspinata A&J      | 22.2                                          | 9.8                     | 28.4  | 85   | 0   |



Table 5. Continued

CRUISE 2DI85  
24-28 Jul 85  
Summary of 9 samples sorted

| Taxon                       | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |      |     |     |
|-----------------------------|-----------------------------------------------|-------------------------|------|-----|-----|
|                             |                                               | Mean                    | s.d. | max | min |
| Neocalanus plumchrus C-4    | 11.1                                          | 8.7                     | 26.2 | 79  | 0   |
| Thysanoessa longipes A&J    | 44.4                                          | 8.0                     | 16.6 | 49  | 0   |
| Gastropoda <5mm             | 11.1                                          | 4.3                     | 13.0 | 39  | 0   |
| Cumacea <5mm                | 11.1                                          | 4.2                     | 12.5 | 37  | 0   |
| Calanus pacificus - adult F | 11.1                                          | 4.2                     | 12.5 | 37  | 0   |
| Calanus marshallae C-1      | 11.1                                          | 1.1                     | 3.2  | 10  | 0   |
| Thysanoessa raschii A&J     | 11.1                                          | 0.7                     | 2.2  | 7   | 0   |
| Thecosomata >5mm            | 11.1                                          | 0.3                     | 0.8  | 2   | 0   |
| Invertebrata >5mm           | 11.1                                          | 0.3                     | 0.8  | 2   | 0   |
| Ctenophora >5mm             | 11.1                                          | 0.1                     | 0.4  | 1   | 0   |

Table 6. Zooplankton data summary for FOX86-I, cruise 3MF85 in Shelikof Strait, 16-25 October 1985.

CRUISE 3MF85  
16-25 Oct 85  
Summary of 5 samples sorted

| Taxon                          | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |         |       |      |
|--------------------------------|-----------------------------------------------|-------------------------|---------|-------|------|
|                                |                                               | Mean                    | s.d.    | max   | min  |
| Metridia pacifica C-5 M        | 100.0                                         | 13516.5                 | 12394.2 | 29089 | 727  |
| Pseudocalanus spp. - adult F   | 100.0                                         | 11143.4                 | 5029.5  | 16903 | 3504 |
| Metridia pacifica C-5 F        | 100.0                                         | 10618.1                 | 9563.5  | 25551 | 494  |
| Pseudocalanus spp. C-5 F       | 100.0                                         | 8594.5                  | 4670.3  | 13077 | 797  |
| Pseudocalanus spp. C-5 M       | 100.0                                         | 8176.7                  | 8632.0  | 22231 | 757  |
| Acartia spp.                   | 100.0                                         | 6678.8                  | 3741.9  | 11679 | 3223 |
| Metridia pacifica - adult F    | 100.0                                         | 5663.1                  | 4911.6  | 11845 | 145  |
| Other Copepoda <2mm            | 100.0                                         | 4500.3                  | 2838.1  | 7862  | 1656 |
| Metridia pacifica C-4          | 100.0                                         | 3753.1                  | 2987.0  | 8029  | 378  |
| Oithona spp.                   | 100.0                                         | 2479.7                  | 1450.2  | 3869  | 204  |
| Euphausiacea - furcilia        | 100.0                                         | 2372.7                  | 3158.9  | 7897  | 137  |
| Other Copepoda 2-5mm           | 100.0                                         | 1692.1                  | 1693.8  | 4168  | 365  |
| Metriididae C-3                | 100.0                                         | 1560.8                  | 1129.2  | 3071  | 145  |
| Calanus marshallae C-5         | 100.0                                         | 1425.4                  | 1001.0  | 2280  | 146  |
| Larvacea                       | 100.0                                         | 1361.8                  | 1119.8  | 2852  | 233  |
| Ostracoda <5mm                 | 100.0                                         | 927.4                   | 916.6   | 1974  | 222  |
| Hyperiididae <5mm              | 100.0                                         | 878.9                   | 930.3   | 2413  | 204  |
| Other Copepoda damaged         | 80.0                                          | 693.4                   | 774.6   | 1965  | 0    |
| Eucalanus bungii C-5 F         | 100.0                                         | 646.0                   | 753.0   | 1962  | 38   |
| Neocalanus plumchrus C-5       | 80.0                                          | 579.2                   | 714.3   | 1755  | 0    |
| Neocalanus plumchrus - adult F | 80.0                                          | 511.2                   | 511.6   | 1097  | 0    |
| Metridia pacifica - adult M    | 60.0                                          | 489.8                   | 643.6   | 1572  | 0    |
| Euphausiacea - calyptopis-3    | 60.0                                          | 479.6                   | 733.3   | 1755  | 0    |
| Eucalanus bungii C-5 M         | 100.0                                         | 470.6                   | 667.6   | 1642  | 33   |
| Chaetognatha >20mm             | 100.0                                         | 449.2                   | 672.2   | 1642  | 15   |
| Pseudocalanus spp. - adult M   | 100.0                                         | 426.2                   | 182.2   | 718   | 219  |
| Chaetognatha 5-20mm            | 100.0                                         | 267.5                   | 180.2   | 502   | 65   |
| Echinodermata - larva <5mm     | 60.0                                          | 249.5                   | 324.2   | 730   | 0    |
| Pseudocalanus spp. C-4 M       | 60.0                                          | 245.9                   | 408.7   | 959   | 0    |
| Pseudocalanus spp. C-4 F       | 80.0                                          | 238.1                   | 270.0   | 610   | 0    |
| Cnidaria - medusa <5mm         | 100.0                                         | 237.1                   | 252.6   | 658   | 29   |
| Calanus marshallae C-4         | 100.0                                         | 198.3                   | 124.1   | 376   | 73   |
| Eucalanus bungii C-4 F         | 80.0                                          | 190.5                   | 111.5   | 292   | 0    |
| Thecosomata <5mm               | 80.0                                          | 190.1                   | 253.7   | 633   | 0    |
| Thysanoessa inermis A&J        | 80.0                                          | 173.6                   | 202.2   | 405   | 0    |
| Cnidaria - medusa >5mm         | 100.0                                         | 158.5                   | 132.6   | 364   | 5    |
| Calanus marshallae C-3         | 80.0                                          | 157.0                   | 146.1   | 376   | 0    |
| Calanus pacificus C-4          | 40.0                                          | 146.1                   | 206.7   | 439   | 0    |
| Calanus pacificus C-5          | 40.0                                          | 138.2                   | 290.3   | 657   | 0    |
| Gastropoda <5mm                | 20.0                                          | 131.6                   | 294.3   | 658   | 0    |
| Bryozoa - cyphonautes <5mm     | 80.0                                          | 127.1                   | 216.5   | 511   | 0    |
| Calanus marshallae C-2         | 40.0                                          | 125.4                   | 193.2   | 439   | 0    |
| Eucalanus bungii C-4 M         | 60.0                                          | 120.8                   | 115.5   | 236   | 0    |

Table 6. Continued

CRUISE 3MF85  
16-25 Oct 85  
Summary of 5 samples sorted

| Taxon                          | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |       |     |     |
|--------------------------------|-----------------------------------------------|-------------------------|-------|-----|-----|
|                                |                                               | Mean                    | s.d.  | max | min |
| Euphausiacea - calyptopis-2    | 60.0                                          | 110.2                   | 103.1 | 219 | 0   |
| Mysidacea <5mm                 | 60.0                                          | 110.2                   | 103.1 | 219 | 0   |
| Cirripedia - nauplius <5mm     | 60.0                                          | 109.3                   | 186.9 | 439 | 0   |
| Eucalanus bungii C-1           | 60.0                                          | 109.3                   | 186.9 | 439 | 0   |
| Euphausiacea - calyptopis-1    | 60.0                                          | 106.1                   | 114.1 | 233 | 0   |
| Other Copepoda - nauplius      | 40.0                                          | 103.5                   | 190.5 | 439 | 0   |
| Eucalanus bungii C-3           | 60.0                                          | 89.1                    | 99.9  | 236 | 0   |
| Invertebrata - egg <5mm        | 60.0                                          | 81.7                    | 91.6  | 219 | 0   |
| Calanus marshallae C-1         | 60.0                                          | 78.9                    | 98.9  | 219 | 0   |
| Cirripedia - cypris <5mm       | 80.0                                          | 77.6                    | 86.3  | 219 | 0   |
| Other zooplankton <5mm         | 40.0                                          | 73.1                    | 103.4 | 219 | 0   |
| Polychaeta <5mm                | 60.0                                          | 70.5                    | 96.1  | 219 | 0   |
| Eucalanus bungii C-2           | 60.0                                          | 69.9                    | 90.2  | 219 | 0   |
| Hyperiidea >5mm                | 100.0                                         | 69.5                    | 65.8  | 160 | 11  |
| ?Pseudocalanus spp. C-3        | 40.0                                          | 64.1                    | 88.3  | 174 | 0   |
| Eucalanus bungii - adult F     | 80.0                                          | 59.4                    | 37.0  | 91  | 0   |
| Neocalanus cristatus C-5       | 80.0                                          | 56.4                    | 73.7  | 178 | 0   |
| Mysidacea >5mm                 | 60.0                                          | 52.1                    | 55.2  | 111 | 0   |
| Gammaridea >5mm                | 100.0                                         | 48.9                    | 37.1  | 98  | 7   |
| Foraminifera <5mm              | 20.0                                          | 43.9                    | 98.1  | 219 | 0   |
| Gammaridea <5mm                | 40.0                                          | 43.1                    | 68.6  | 157 | 0   |
| Gymnosomata <5mm               | 40.0                                          | 41.7                    | 68.3  | 157 | 0   |
| Euphausiacea pacifica A&J      | 40.0                                          | 40.6                    | 55.6  | 105 | 0   |
| Other Copepoda >5mm            | 80.0                                          | 38.9                    | 56.7  | 137 | 0   |
| Bivalvia <5mm                  | 40.0                                          | 37.9                    | 54.1  | 116 | 0   |
| Calanus marshallae - adult F   | 60.0                                          | 36.6                    | 43.0  | 87  | 0   |
| Siphonophora <5mm              | 40.0                                          | 34.9                    | 68.8  | 157 | 0   |
| Thysanoessa spinifera A&J      | 100.0                                         | 24.7                    | 20.5  | 61  | 12  |
| Gymnosomata >5mm               | 60.0                                          | 18.6                    | 31.3  | 74  | 0   |
| Natantia A&J >5mm              | 60.0                                          | 18.4                    | 17.0  | 34  | 0   |
| Euphausiacea - nauplius        | 40.0                                          | 18.0                    | 31.6  | 73  | 0   |
| Unidentified Calanoida C-3     | 20.0                                          | 15.7                    | 35.2  | 79  | 0   |
| Metriididae C-2                | 20.0                                          | 15.7                    | 35.2  | 79  | 0   |
| Neocalanus plumchrus - adult M | 20.0                                          | 15.7                    | 35.2  | 79  | 0   |
| Calanus pacificus - adult F    | 20.0                                          | 14.6                    | 32.6  | 73  | 0   |
| Echinodermata <5mm             | 20.0                                          | 11.6                    | 26.0  | 58  | 0   |
| Brachyura - larva              | 20.0                                          | 10.3                    | 22.9  | 51  | 0   |
| Polychaeta >5mm                | 60.0                                          | 9.7                     | 9.7   | 22  | 0   |
| Natantia - larva               | 40.0                                          | 9.2                     | 13.3  | 29  | 0   |
| Teleostei - larva >5mm         | 60.0                                          | 9.0                     | 8.3   | 16  | 0   |
| Siphonophora >5mm              | 40.0                                          | 8.4                     | 13.1  | 30  | 0   |
| Cumacea >5mm                   | 80.0                                          | 8.0                     | 6.0   | 15  | 0   |
| Neocalanus cristatus C-4       | 20.0                                          | 7.5                     | 16.7  | 37  | 0   |

Table 6. Continued

CRUISE 3MF85  
16-25 Oct 85  
Summary of 5 samples sorted

| Taxon                      | Percentage<br>of samples<br>in which<br>found | Concentration (no / m2) |      |     |     |
|----------------------------|-----------------------------------------------|-------------------------|------|-----|-----|
|                            |                                               | Mean                    | s.d. | max | min |
| Thysanoessa longipes A&J   | 60.0                                          | 7.0                     | 6.9  | 15  | 0   |
| Cumacea <5mm               | 20.0                                          | 5.8                     | 13.0 | 29  | 0   |
| Gastropoda - veliger <5mm  | 20.0                                          | 3.4                     | 7.6  | 17  | 0   |
| Invertebrata >5mm          | 20.0                                          | 3.0                     | 6.8  | 15  | 0   |
| Euphausiacea A&J damaged   | 20.0                                          | 2.5                     | 5.5  | 12  | 0   |
| Eucalanus bungii - adult M | 20.0                                          | 1.5                     | 3.3  | 7   | 0   |

Table 7. Taxa not routinely identified to species, and the species most commonly encountered from these taxa in Shelikof Strait in 1985.

| TAXON                                | COMPOSITION                                                    |
|--------------------------------------|----------------------------------------------------------------|
| <u>Acartia</u> spp.                  | <u>Acartia longiremis</u>                                      |
| Anomura larva                        | Paguridae                                                      |
| Brachyura larva                      | <u>Cancer</u> spp., <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 | <u>Metridia</u> spp., Euchaetidae                              |
| Other Copepoda $< 2$ mm              | Scolecithricidae, <u>Centropages</u> spp.                      |
| Polychaeta                           | Tomopteridae                                                   |
| Thecosomata                          | <u>Limacina helicina</u>                                       |

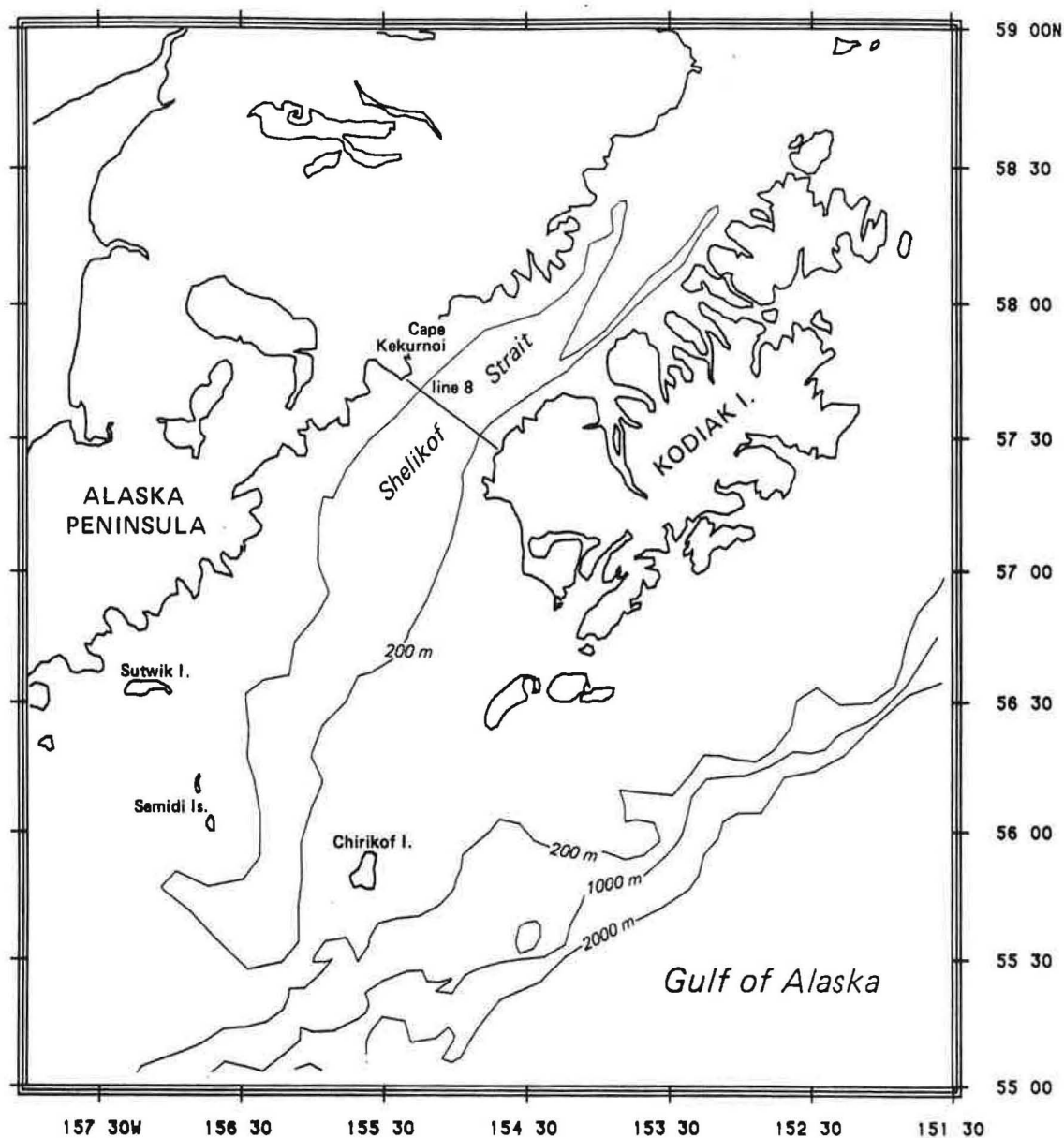


Figure 1. Geography and bathymetry of Shelikof Strait, northwestern Gulf of Alaska.

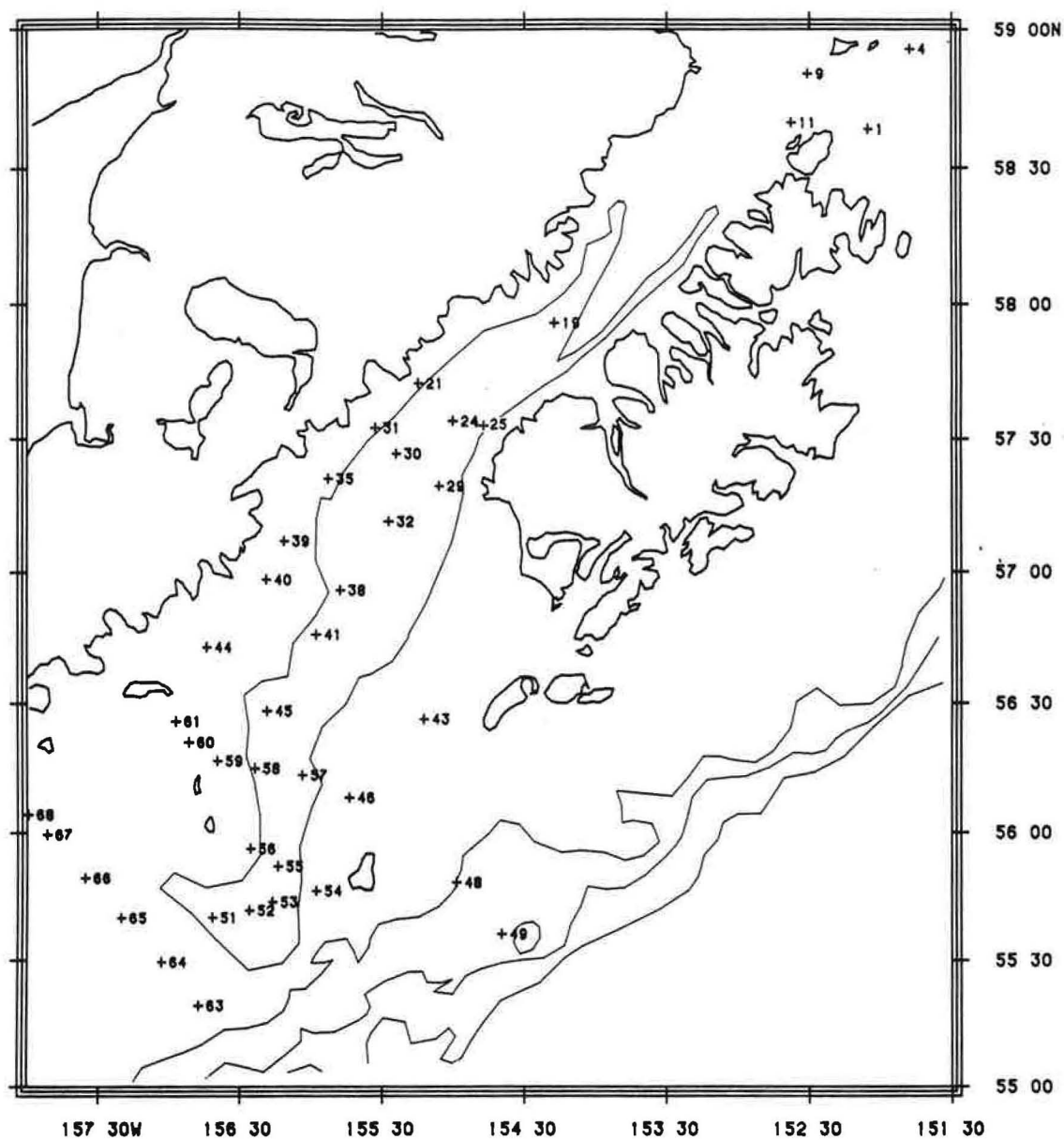


Figure 2. Stations sampled for zooplankton, FOX85-I, cruise 1DI85, 12-28 March 1985.

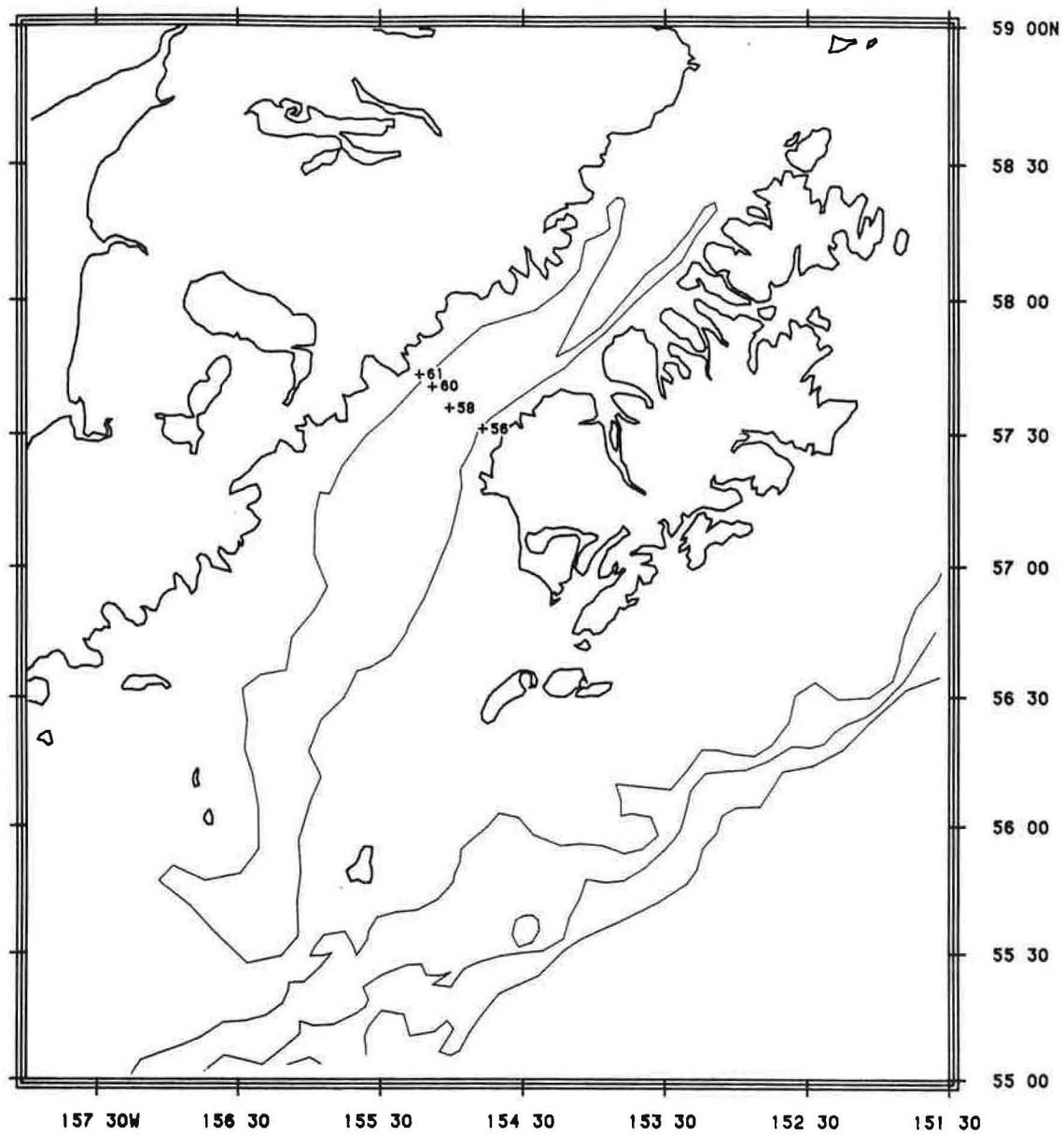


Figure 3. Stations sampled for zooplankton, FOX85-II, cruise 1MF85, 1-12 April 1985.



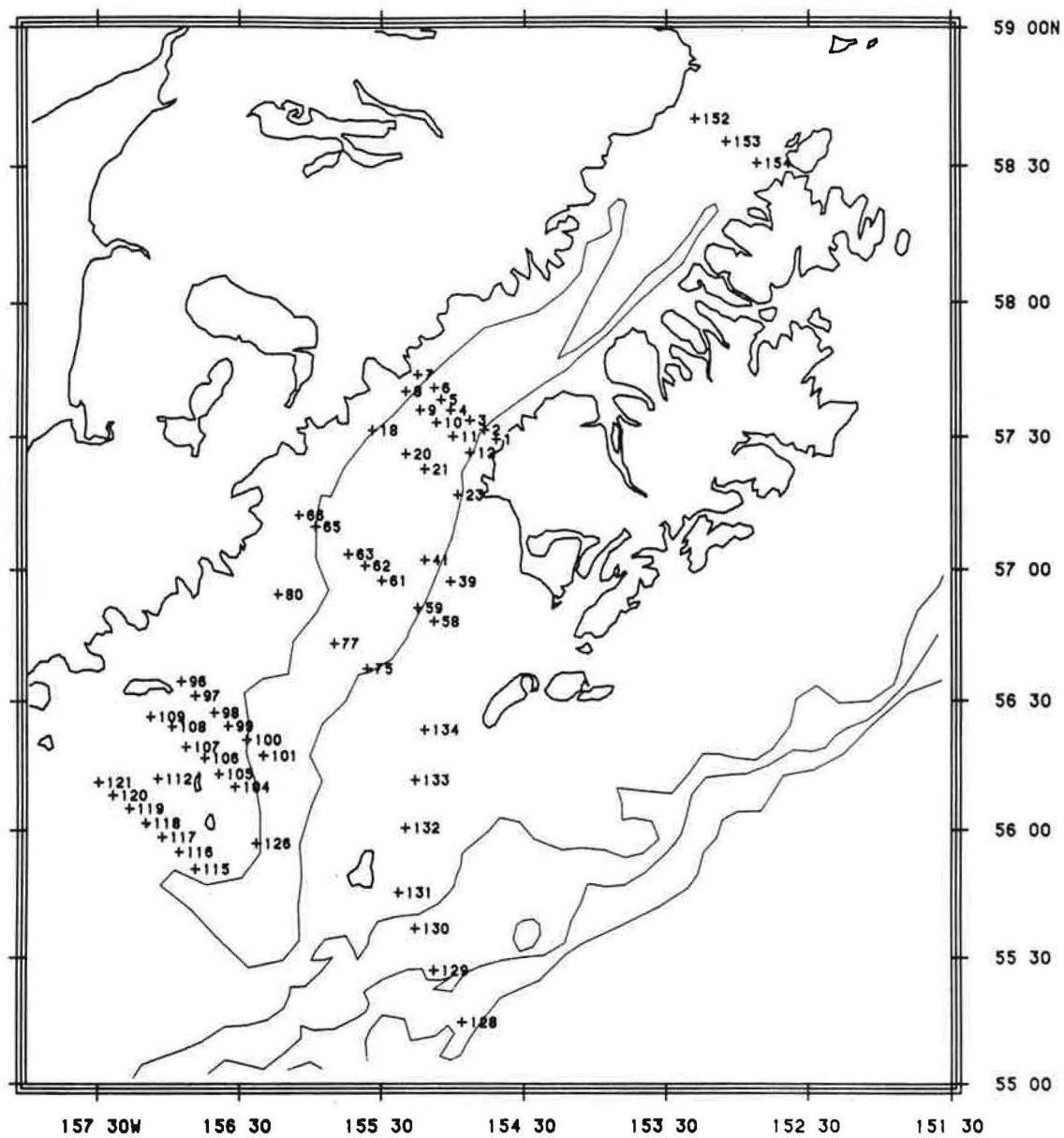


Figure 4. Stations sampled for zooplankton, FOX85-III, cruise 2MF85, 1-12 May 1985.

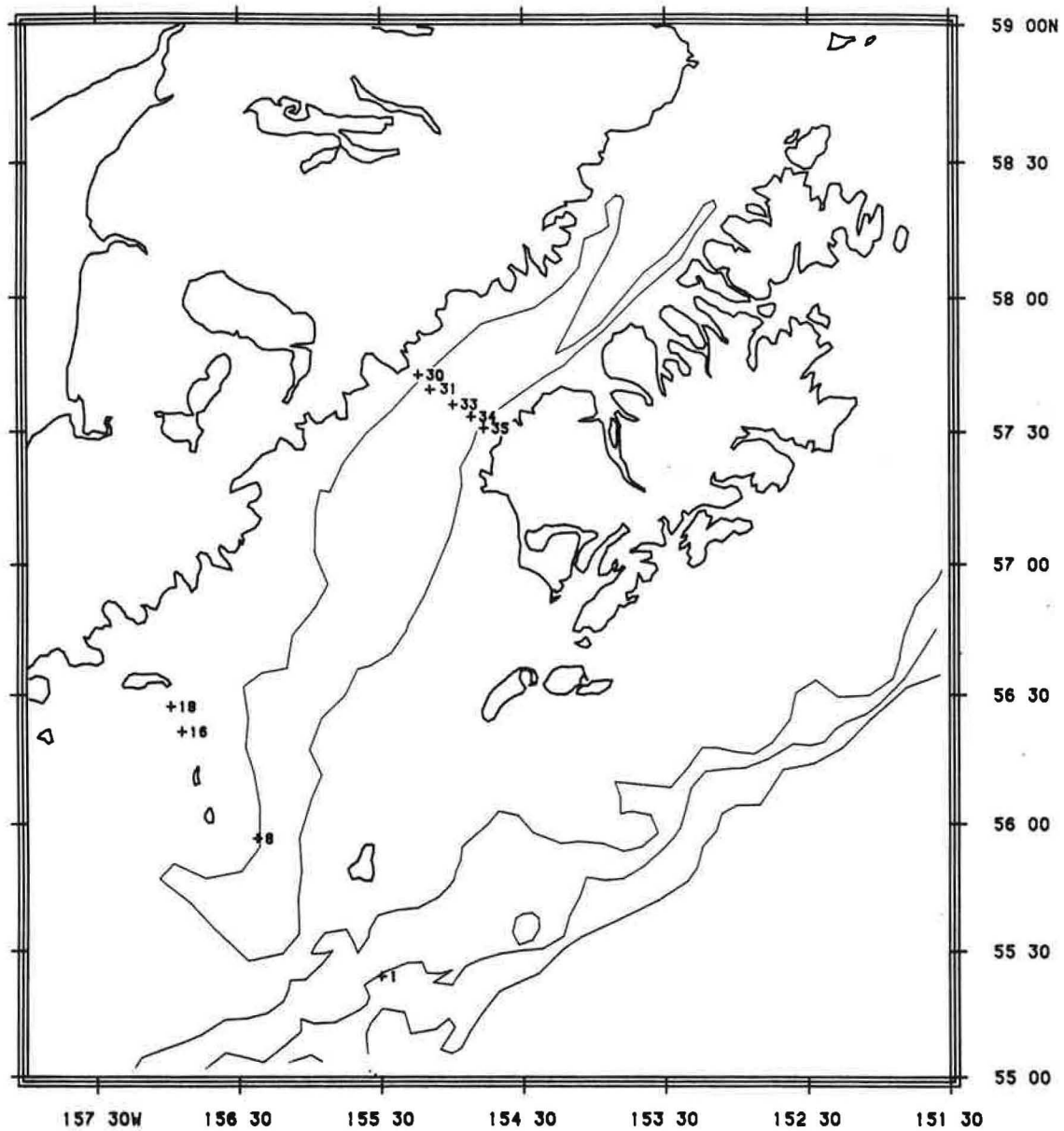


Figure 5. Stations sampled for zooplankton, FOX85-IV, cruise 2DI85, 24-28 July 1985.

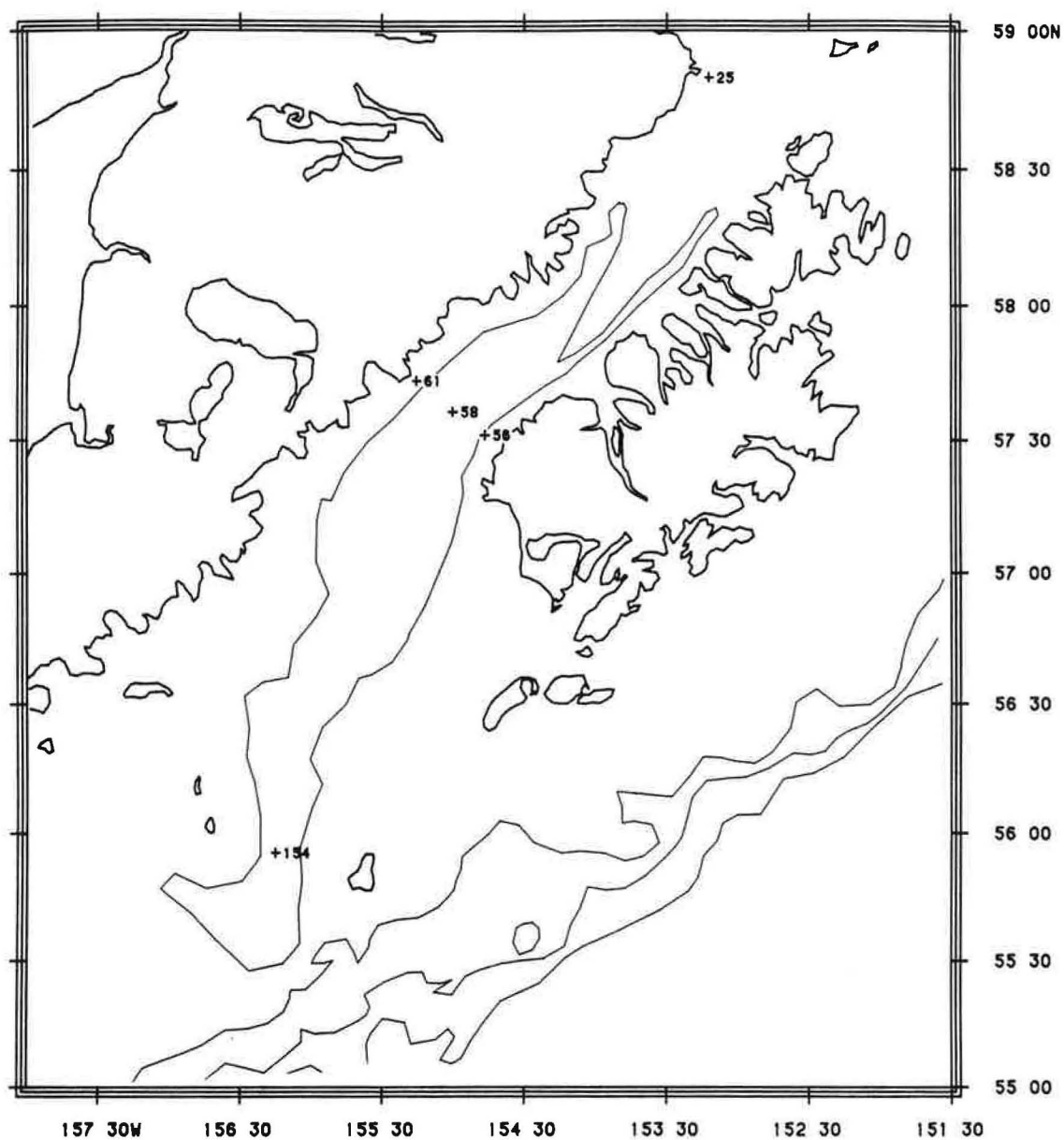


Figure 6. Stations sampled for zooplankton, FOX86-I, cruise 3MF85, 16-25 October 1985.





Appendix 1. Abundance of zooplankton taxa at each station sampled during FOX85-I, cruise 1DI85 in Shelikof Strait, 12-28 March 1985.

STA. 001 58 38.3 N 152 05.6 W 11 Mar 85 6:17

DEPTH 138 SAMPLING INTERVAL 0 - 105 VOLUME FILTERED 121.9 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Other Copepoda <2mm          | 134               | 16.0        | 176          | 1846       | 19.4  |
| Pseudocalanus spp. - adult F | 128               | 16.0        | 168          | 1764       | 18.5  |
| Metridia pacifica - adult F  | 113               | 16.0        | 148          | 1557       | 16.3  |
| Neocalanus plumchrus C-2     | 59                | 16.0        | 77           | 813        | 8.5   |
| Ostracoda <5mm               | 23                | 16.0        | 30           | 317        | 3.3   |
| Metridia pacifica C-4        | 23                | 16.0        | 30           | 317        | 3.3   |
| Calanus marshallae - adult F | 20                | 16.0        | 26           | 276        | 2.9   |
| Oithona spp.                 | 19                | 16.0        | 25           | 262        | 2.7   |
| Calanus pacificus C-5        | 17                | 16.0        | 22           | 234        | 2.5   |
| Cirripedia - nauplius <5mm   | 16                | 16.0        | 21           | 220        | 2.3   |
| Metridia pacifica C-5 F      | 15                | 16.0        | 20           | 207        | 2.2   |
| Larvacea                     | 11                | 16.0        | 14           | 152        | 1.6   |
| Thecosomata <5mm             | 10                | 16.0        | 13           | 138        | 1.4   |
| Chaetognatha 5-20mm          | 152               | 1.0         | 12           | 131        | 1.4   |
| Metriididae C-3              | 9                 | 16.0        | 12           | 124        | 1.3   |
| Metridia pacifica - adult M  | 8                 | 16.0        | 10           | 110        | 1.2   |
| Cnidaria - medusa <5mm       | 7                 | 16.0        | 9            | 96         | 1.0   |
| Other Copepoda 2-5mm         | 7                 | 16.0        | 9            | 96         | 1.0   |
| Calanus marshallae - adult M | 7                 | 16.0        | 9            | 96         | 1.0   |
| Metridia pacifica C-5 M      | 6                 | 16.0        | 8            | 83         | 0.9   |
| Thysanoessa inermis A&J      | 89                | 1.0         | 7            | 77         | 0.8   |
| Acartia spp.                 | 5                 | 16.0        | 7            | 69         | 0.7   |
| Neocalanus plumchrus C-1     | 4                 | 16.0        | 5            | 55         | 0.6   |
| Pseudocalanus spp. C-5 F     | 4                 | 16.0        | 5            | 55         | 0.6   |
| Neocalanus cristatus C-2     | 4                 | 16.0        | 5            | 55         | 0.6   |
| Pseudocalanus spp. - adult M | 3                 | 16.0        | 4            | 41         | 0.4   |
| Gymnosomata <5mm             | 3                 | 16.0        | 4            | 41         | 0.4   |
| Brachyura - larva            | 2                 | 16.0        | 3            | 28         | 0.3   |
| Foraminifera <5mm            | 2                 | 16.0        | 3            | 28         | 0.3   |
| Calanus pacificus - adult F  | 2                 | 16.0        | 3            | 28         | 0.3   |
| Cnidaria - medusa >5mm       | 31                | 1.0         | 3            | 27         | 0.3   |
| Euphausia pacifica A&J       | 25                | 1.0         | 2            | 22         | 0.2   |
| Siphonophora >5mm            | 17                | 1.0         | 1            | 15         | 0.2   |
| Euphausiacea - furcilia      | 1                 | 16.0        | 1            | 14         | 0.1   |
| Neocalanus plumchrus C-3     | 1                 | 16.0        | 1            | 14         | 0.1   |
| Calanus marshallae C-5       | 1                 | 16.0        | 1            | 14         | 0.1   |
| Euphausiacea - calyptopis 2  | 1                 | 16.0        | 1            | 14         | 0.1   |
| Calanus pacificus - adult M  | 1                 | 16.0        | 1            | 14         | 0.1   |
| Cirripedia - cypris <5mm     | 1                 | 16.0        | 1            | 14         | 0.1   |
| Polychaeta <5mm              | 1                 | 16.0        | 1            | 14         | 0.1   |
| Siphonophora <5mm            | 1                 | 16.0        | 1            | 14         | 0.1   |
| Thysanoessa spinifera A&J    | 15                | 1.0         | 1            | 13         | 0.1   |
| Neocalanus cristatus C-5     | 8                 | 1.0         | 1            | 7          | 0.1   |
| Polychaeta >5mm              | 7                 | 1.0         | 1            | 6          | 0.1   |
| Hyperiidia >5mm              | 5                 | 1.0         | < 1          | 4          | < 0.1 |
| Chaetognatha >20mm           | 3                 | 1.0         | < 1          | 3          | < 0.1 |

|                            |   |       |     |       |       |
|----------------------------|---|-------|-----|-------|-------|
| Neocalanus cristatus C-4   | 3 | 1.0   | < 1 | 3     | < 0.1 |
| Thysanoessa raschii A&J    | 2 | 1.0   | < 1 | 2     | < 0.1 |
| Thysanoessa longipes A&J   | 1 | 1.0   | < 1 | 1     | < 0.1 |
| Gymnosomata >5mm           | 1 | 1.0   | < 1 | 1     | < 0.1 |
| Eucalanus bungii - adult M | 1 | 1.0   | < 1 | 1     | < 0.1 |
|                            |   | ----- |     | ----- | ----- |
|                            |   | 907   |     | 9528  | 100.  |



STA. 004 58 55.7 N 151 47.9 W 12 Mar 85 19:32

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH  
150 0 - 145 216.8 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|--------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-2       | 164               | 16.0        | 121          | 1755       | 31.0  |
| Other Copepoda <2mm            | 92                | 16.0        | 68           | 984        | 17.4  |
| Pseudocalanus spp. - adult F   | 87                | 16.0        | 64           | 931        | 16.5  |
| Neocalanus cristatus C-2       | 39                | 16.0        | 29           | 417        | 7.4   |
| Metridia pacifica C-4          | 24                | 16.0        | 18           | 257        | 4.5   |
| Oithona spp.                   | 20                | 16.0        | 15           | 214        | 3.8   |
| Cnidaria - medusa <5mm         | 15                | 16.0        | 11           | 160        | 2.8   |
| Chaetognatha 5-20mm            | 104               | 2.0         | 10           | 139        | 2.5   |
| Neocalanus cristatus C-3       | 9                 | 16.0        | 7            | 96         | 1.7   |
| Thecosomata <5mm               | 8                 | 16.0        | 6            | 86         | 1.5   |
| Metriididae C-3                | 8                 | 16.0        | 6            | 86         | 1.5   |
| Acartia spp.                   | 4                 | 16.0        | 3            | 43         | 0.8   |
| Metridia pacifica C-5 F        | 4                 | 16.0        | 3            | 43         | 0.8   |
| Ostracoda <5mm                 | 4                 | 16.0        | 3            | 43         | 0.8   |
| Calanus pacificus C-5          | 30                | 2.0         | 3            | 40         | 0.7   |
| Other Copepoda 2-5mm           | 3                 | 16.0        | 2            | 32         | 0.6   |
| Neocalanus plumchrus C-3       | 3                 | 16.0        | 2            | 32         | 0.6   |
| Siphonophora >5mm              | 17                | 2.0         | 2            | 23         | 0.4   |
| Anomura - larva                | 2                 | 16.0        | 1            | 21         | 0.4   |
| Metridia pacifica - adult M    | 2                 | 16.0        | 1            | 21         | 0.4   |
| Hyperiididae <5mm              | 2                 | 16.0        | 1            | 21         | 0.4   |
| Siphonophora <5mm              | 2                 | 16.0        | 1            | 21         | 0.4   |
| Gastropoda <5mm                | 2                 | 16.0        | 1            | 21         | 0.4   |
| Natantia - larva               | 2                 | 16.0        | 1            | 21         | 0.4   |
| Larvacea                       | 2                 | 16.0        | 1            | 21         | 0.4   |
| Euphausiacea - furcilia        | 2                 | 16.0        | 1            | 21         | 0.4   |
| Cnidaria - medusa >5mm         | 13                | 2.0         | 1            | 17         | 0.3   |
| Calanus marshallae - adult F   | 12                | 2.0         | 1            | 16         | 0.3   |
| Pseudocalanus spp. C-5 F       | 1                 | 16.0        | 1            | 11         | 0.2   |
| Metridia pacifica C-5 M        | 1                 | 16.0        | 1            | 11         | 0.2   |
| Eucalanus bungii C-4 F         | 1                 | 16.0        | 1            | 11         | 0.2   |
| Polychaeta <5mm                | 1                 | 16.0        | 1            | 11         | 0.2   |
| Metridia pacifica - adult F    | 1                 | 16.0        | 1            | 11         | 0.2   |
| Calanus pacificus - adult F    | 3                 | 2.0         | < 1          | 4          | 0.1   |
| Neocalanus plumchrus C-5       | 3                 | 2.0         | < 1          | 4          | 0.1   |
| Neocalanus plumchrus C-4       | 2                 | 2.0         | < 1          | 3          | < 0.1 |
| Calanus pacificus - adult M    | 2                 | 2.0         | < 1          | 3          | < 0.1 |
| Neocalanus cristatus C-4       | 2                 | 2.0         | < 1          | 3          | < 0.1 |
| Thysanoessa longipes A&J       | 1                 | 2.0         | < 1          | 1          | < 0.1 |
| Neocalanus plumchrus - adult M | 1                 | 2.0         | < 1          | 1          | < 0.1 |
| Calanus marshallae - adult M   | 1                 | 2.0         | < 1          | 1          | < 0.1 |
|                                |                   |             | 390          | 5659       | 100.  |

STA. 009 58 50.4 N 152 30.7 W 13 Mar 85 14:16

DEPTH 210 SAMPLING INTERVAL 0 - 180 VOLUME FILTERED 376.1 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Other Copepoda <2mm          | 72                | 64.0        | 123          | 2205       | 23.4  |
| Pseudocalanus spp. - adult F | 48                | 64.0        | 82           | 1470       | 15.6  |
| Neocalanus plumchrus C-2     | 46                | 64.0        | 78           | 1409       | 14.9  |
| Oithona spp.                 | 30                | 64.0        | 51           | 919        | 9.7   |
| Cnidaria - medusa <5mm       | 12                | 64.0        | 20           | 368        | 3.9   |
| Metriididae C-3              | 10                | 64.0        | 17           | 306        | 3.2   |
| Ostracoda <5mm               | 10                | 64.0        | 17           | 306        | 3.2   |
| Metridia pacifica C-4        | 9                 | 64.0        | 15           | 276        | 2.9   |
| Calanus pacificus C-5        | 45                | 12.8        | 15           | 276        | 2.9   |
| Cirripedia - nauplius <5mm   | 7                 | 64.0        | 12           | 214        | 2.3   |
| Chaetognatha 5-20mm          | 94                | 4.0         | 10           | 180        | 1.9   |
| Larvacea                     | 5                 | 64.0        | 9            | 153        | 1.6   |
| Neocalanus plumchrus C-1     | 5                 | 64.0        | 9            | 153        | 1.6   |
| Calanus marshallae - adult M | 18                | 12.8        | 6            | 110        | 1.2   |
| Pseudocalanus spp. - adult M | 3                 | 64.0        | 5            | 92         | 1.0   |
| Thecosomata <5mm             | 3                 | 64.0        | 5            | 92         | 1.0   |
| Metridia pacifica - adult M  | 3                 | 64.0        | 5            | 92         | 1.0   |
| Cnidaria - medusa >5mm       | 37                | 4.0         | 4            | 71         | 0.8   |
| Calanus marshallae - adult F | 11                | 12.8        | 4            | 67         | 0.7   |
| Siphonophora <5mm            | 2                 | 64.0        | 3            | 61         | 0.6   |
| Metridia pacifica C-5 F      | 2                 | 64.0        | 3            | 61         | 0.6   |
| Metridia pacifica - adult F  | 2                 | 64.0        | 3            | 61         | 0.6   |
| Neocalanus cristatus C-2     | 2                 | 64.0        | 3            | 61         | 0.6   |
| Acartia spp.                 | 2                 | 64.0        | 3            | 61         | 0.6   |
| Pseudocalanus spp. C-5 F     | 2                 | 64.0        | 3            | 61         | 0.6   |
| Siphonophora >5mm            | 30                | 4.0         | 3            | 57         | 0.6   |
| Metriididae C-2              | 1                 | 64.0        | 2            | 31         | 0.3   |
| Gastropoda <5mm              | 1                 | 64.0        | 2            | 31         | 0.3   |
| Cirripedia - cypris <5mm     | 1                 | 64.0        | 2            | 31         | 0.3   |
| Metridia pacifica C-5 M      | 1                 | 64.0        | 2            | 31         | 0.3   |
| Hyperiididae <5mm            | 1                 | 64.0        | 2            | 31         | 0.3   |
| Calanus marshallae C-5       | 3                 | 12.8        | 1            | 18         | 0.2   |
| Calanus pacificus - adult F  | 3                 | 12.8        | 1            | 18         | 0.2   |
| Calanus pacificus - adult M  | 2                 | 12.8        | 1            | 12         | 0.1   |
| Eucalanus bungii C-4 F       | 2                 | 12.8        | 1            | 12         | 0.1   |
| Hyperiididae >5mm            | 5                 | 4.0         | 1            | 10         | 0.1   |
| Chaetognatha >20mm           | 4                 | 4.0         | < 1          | 8          | 0.1   |
| Eucalanus bungii C-5 F       | 2                 | 4.0         | < 1          | 4          | < 0.1 |
| Eucalanus bungii - adult F   | 2                 | 4.0         | < 1          | 4          | < 0.1 |
| Thysanoessa inermis A&J      | 2                 | 4.0         | < 1          | 4          | < 0.1 |
| Thysanoessa raschii A&J      | 2                 | 4.0         | < 1          | 4          | < 0.1 |
| Euphausia pacifica A&J       | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Thysanoessa spinifera A&J    | 1                 | 4.0         | < 1          | 2          | < 0.1 |
|                              |                   |             | 524          | 9435       | 100.  |

STA. 011 58 39.8 N 152 37.7 W 13 Mar 85 19:33

DEPTH 80 SAMPLING INTERVAL 0 - 57 VOLUME FILTERED 106.0 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|--------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F   | 67                | 32.0        | 202          | 1153       | 17.6  |
| Calanus marshallae - adult F   | 57                | 32.0        | 172          | 981        | 15.0  |
| Neocalanus plumchrus C-2       | 48                | 32.0        | 145          | 826        | 12.6  |
| Metridia pacifica - adult F    | 40                | 32.0        | 121          | 689        | 10.5  |
| Other Copepoda 2-5mm           | 31                | 32.0        | 94           | 534        | 8.1   |
| Other Copepoda <2mm            | 25                | 32.0        | 76           | 430        | 6.6   |
| Calanus marshallae - adult M   | 16                | 32.0        | 48           | 275        | 4.2   |
| Larvacea                       | 15                | 32.0        | 45           | 258        | 3.9   |
| Calanus marshallae C-5         | 12                | 32.0        | 36           | 207        | 3.1   |
| Metridia pacifica C-4          | 12                | 32.0        | 36           | 207        | 3.1   |
| Metridia pacifica - adult M    | 8                 | 32.0        | 24           | 138        | 2.1   |
| Cnidaria - medusa <5mm         | 7                 | 32.0        | 21           | 121        | 1.8   |
| Ostracoda <5mm                 | 5                 | 32.0        | 15           | 86         | 1.3   |
| Thysanoessa inermis A&J        | 66                | 2.0         | 12           | 71         | 1.1   |
| Gammaridea <5mm                | 4                 | 32.0        | 12           | 69         | 1.0   |
| Pseudocalanus spp. - adult M   | 3                 | 32.0        | 9            | 52         | 0.8   |
| Metridia pacifica C-5 F        | 3                 | 32.0        | 9            | 52         | 0.8   |
| Acartia spp.                   | 22                | 3.6         | 7            | 43         | 0.6   |
| Metridia pacifica C-5 M        | 2                 | 32.0        | 6            | 34         | 0.5   |
| Neocalanus cristatus C-2       | 2                 | 32.0        | 6            | 34         | 0.5   |
| Neocalanus plumchrus C-1       | 2                 | 32.0        | 6            | 34         | 0.5   |
| Calanus pacificus C-5          | 17                | 3.6         | 6            | 33         | 0.5   |
| Chaetognatha 5-20mm            | 28                | 2.0         | 5            | 30         | 0.5   |
| Oithona spp.                   | 10                | 3.6         | 3            | 19         | 0.3   |
| Metriididae C-3                | 1                 | 32.0        | 3            | 17         | 0.3   |
| Siphonophora <5mm              | 1                 | 32.0        | 3            | 17         | 0.3   |
| Thysanoessa spinifera A&J      | 14                | 2.0         | 3            | 15         | 0.2   |
| Cnidaria - medusa >5mm         | 13                | 2.0         | 2            | 14         | 0.2   |
| Calanus pacificus - adult F    | 7                 | 3.6         | 2            | 14         | 0.2   |
| Euphausia pacifica A&J         | 12                | 2.0         | 2            | 13         | 0.2   |
| Gammaridea >5mm                | 11                | 2.0         | 2            | 12         | 0.2   |
| Eucalanus bungii C-4 F         | 5                 | 3.6         | 2            | 10         | 0.1   |
| Eucalanus bungii C-5 F         | 9                 | 2.0         | 2            | 10         | 0.1   |
| Chaetognatha >20mm             | 8                 | 2.0         | 2            | 9          | 0.1   |
| Neocalanus plumchrus - adult F | 4                 | 3.6         | 1            | 8          | 0.1   |
| Hyperiididae >5mm              | 7                 | 2.0         | 1            | 8          | 0.1   |
| Siphonophora >5mm              | 6                 | 2.0         | 1            | 6          | 0.1   |
| Eucalanus bungii - adult M     | 4                 | 2.0         | 1            | 4          | 0.1   |
| Neocalanus cristatus C-5       | 4                 | 2.0         | 1            | 4          | 0.1   |
| Eucalanus bungii C-5 M         | 4                 | 2.0         | 1            | 4          | 0.1   |
| Calanus pacificus - adult M    | 2                 | 3.6         | 1            | 4          | 0.1   |
| Mysidacea >5mm                 | 3                 | 2.0         | 1            | 3          | < 0.1 |
| Other Copepoda >5mm            | 2                 | 2.0         | < 1          | 2          | < 0.1 |
| Eucalanus bungii - adult F     | 2                 | 2.0         | < 1          | 2          | < 0.1 |
| Eucalanus bungii C-3           | 1                 | 3.6         | < 1          | 2          | < 0.1 |
| Neocalanus plumchrus C-4       | 1                 | 3.6         | < 1          | 2          | < 0.1 |

|                          |   |       |     |       |       |
|--------------------------|---|-------|-----|-------|-------|
| Euphausiacea - furcilia  | 1 | 3.6   | < 1 | 2     | < 0.1 |
| Thysanoessa longipes A&J | 1 | 2.0   | < 1 | 1     | < 0.1 |
| Gastropoda >5mm          | 1 | 2.0   | < 1 | 1     | < 0.1 |
|                          |   | ----- |     | ----- | ----- |
|                          |   | 1151  |     | 6560  | 100.  |

STA. 019 57 55.8 N 154 17.4 W 15 Mar 85 14:43

DEPTH 218 SAMPLING INTERVAL 0 - 210 VOLUME FILTERED 367.8 NET MESH 333

| Taxon                          | Number counted | Sub/fac | No./10m3 | No./m2 | %    |
|--------------------------------|----------------|---------|----------|--------|------|
| Neocalanus plumchrus C-2       | 337            | 32.0    | 293      | 6158   | 32.0 |
| Pseudocalanus spp. - adult F   | 188            | 32.0    | 164      | 3435   | 17.8 |
| Other Copepoda <2mm            | 70             | 32.0    | 61       | 1279   | 6.6  |
| Metridia pacifica - adult F    | 55             | 32.0    | 48       | 1005   | 5.2  |
| Invertebrata - egg <5mm        | 51             | 32.0    | 44       | 932    | 4.8  |
| Calanus pacificus C-5          | 47             | 32.0    | 41       | 859    | 4.5  |
| Metridia pacifica C-4          | 37             | 32.0    | 32       | 676    | 3.5  |
| Teleostei - egg <5mm           | 34             | 32.0    | 30       | 621    | 3.2  |
| Ostracoda <5mm                 | 26             | 32.0    | 23       | 475    | 2.5  |
| Metriididae C-3                | 24             | 32.0    | 21       | 439    | 2.3  |
| Other Copepoda 2-5mm           | 20             | 32.0    | 17       | 365    | 1.9  |
| Metridia pacifica - adult M    | 17             | 32.0    | 15       | 311    | 1.6  |
| Chaetognatha >20mm             | 227            | 2.0     | 12       | 259    | 1.3  |
| Oithona spp.                   | 14             | 32.0    | 12       | 256    | 1.3  |
| Thecosomata <5mm               | 11             | 32.0    | 10       | 201    | 1.0  |
| Acartia spp.                   | 10             | 32.0    | 9        | 183    | 0.9  |
| Larvacea                       | 9              | 32.0    | 8        | 164    | 0.9  |
| Cnidaria - medusa <5mm         | 9              | 32.0    | 8        | 164    | 0.9  |
| Metridia pacifica C-5 F        | 8              | 32.0    | 7        | 146    | 0.8  |
| Neocalanus plumchrus C-1       | 7              | 32.0    | 6        | 128    | 0.7  |
| Metridia pacifica C-5 M        | 6              | 32.0    | 5        | 110    | 0.6  |
| Pseudocalanus spp. C-5 F       | 5              | 32.0    | 4        | 91     | 0.5  |
| Siphonophora <5mm              | 4              | 32.0    | 3        | 73     | 0.4  |
| Calanus marshallae C-5         | 4              | 32.0    | 3        | 73     | 0.4  |
| Pseudocalanus spp. - adult M   | 4              | 32.0    | 3        | 73     | 0.4  |
| Calanus marshallae - adult F   | 4              | 32.0    | 3        | 73     | 0.4  |
| Chaetognatha 5-20mm            | 61             | 2.0     | 3        | 70     | 0.4  |
| Neocalanus cristatus C-3       | 3              | 32.0    | 3        | 55     | 0.3  |
| Neocalanus cristatus C-2       | 3              | 32.0    | 3        | 55     | 0.3  |
| Chaetognatha <5mm              | 3              | 32.0    | 3        | 55     | 0.3  |
| Pseudocalanus spp. C-5 M       | 3              | 32.0    | 3        | 55     | 0.3  |
| Calanus marshallae - adult M   | 2              | 32.0    | 2        | 37     | 0.2  |
| Neocalanus cristatus C-5       | 29             | 2.0     | 2        | 33     | 0.2  |
| Thysanoessa inermis A&J        | 29             | 2.0     | 2        | 33     | 0.2  |
| Thysanoessa spinifera A&J      | 26             | 2.0     | 1        | 30     | 0.2  |
| Cnidaria - medusa >5mm         | 18             | 2.0     | 1        | 21     | 0.1  |
| Invertebrata <5mm              | 1              | 32.0    | 1        | 18     | 0.1  |
| Pseudocalanus spp. C-4 M       | 1              | 32.0    | 1        | 18     | 0.1  |
| Hyperiididae <5mm              | 1              | 32.0    | 1        | 18     | 0.1  |
| Eucalanus bungii C-4 M         | 1              | 32.0    | 1        | 18     | 0.1  |
| Calanus pacificus - adult F    | 1              | 32.0    | 1        | 18     | 0.1  |
| Cirripedia - nauplius <5mm     | 1              | 32.0    | 1        | 18     | 0.1  |
| Neocalanus plumchrus - adult F | 1              | 32.0    | 1        | 18     | 0.1  |
| Eucalanus bungii C-4 F         | 1              | 32.0    | 1        | 18     | 0.1  |
| Polychaeta <5mm                | 1              | 32.0    | 1        | 18     | 0.1  |
| Siphonophora >5mm              | 11             | 2.0     | 1        | 13     | 0.1  |

|                            |    |       |       |       |       |
|----------------------------|----|-------|-------|-------|-------|
| Mysidacea >5mm             | 10 | 2.0   | 1     | 11    | 0.1   |
| Eucalanus bungii C-5 M     | 10 | 2.0   | 1     | 11    | 0.1   |
| Euphausia pacifica A&J     | 9  | 2.0   | < 1   | 10    | 0.1   |
| Eucalanus bungii C-5 F     | 7  | 2.0   | < 1   | 8     | < 0.1 |
| Gammaridea >5mm            | 7  | 2.0   | < 1   | 8     | < 0.1 |
| Eucalanus bungii - adult M | 6  | 2.0   | < 1   | 7     | < 0.1 |
| Thysanoessa raschii A&J    | 4  | 2.0   | < 1   | 5     | < 0.1 |
| Teleostei - larva >5mm     | 4  | 2.0   | < 1   | 5     | < 0.1 |
| Eucalanus bungii - adult F | 3  | 2.0   | < 1   | 3     | < 0.1 |
| Thysanoessa inspinata A&J  | 3  | 2.0   | < 1   | 3     | < 0.1 |
| Hyperiidea >5mm            | 3  | 2.0   | < 1   | 3     | < 0.1 |
| Polychaeta >5mm            | 2  | 2.0   | < 1   | 2     | < 0.1 |
| Thysanoessa longipes A&J   | 2  | 2.0   | < 1   | 2     | < 0.1 |
| Neocalanus cristatus C-4   | 1  | 2.0   | < 1   | 1     | < 0.1 |
|                            |    | ----- | ----- | ----- |       |
|                            |    |       | 917   | 19250 | 100.  |

STA. 021 57 42.4 N 155 14.8 W 16 Mar 85 5:53

DEPTH 292 SAMPLING INTERVAL 0 - 257 VOLUME FILTERED 446.9 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F | 161               | 64.0        | 231          | 5925       | 25.2  |
| Metridia pacifica - adult F  | 95                | 64.0        | 136          | 3496       | 14.9  |
| Neocalanus plumchrus C-2     | 81                | 64.0        | 116          | 2981       | 12.7  |
| Other Copepoda 2-5mm         | 58                | 64.0        | 83           | 2135       | 9.1   |
| Other Copepoda <2mm          | 45                | 64.0        | 64           | 1656       | 7.0   |
| Calanus marshallae - adult F | 19                | 64.0        | 27           | 699        | 3.0   |
| Metridia pacifica C-4        | 19                | 64.0        | 27           | 699        | 3.0   |
| Cnidaria - medusa <5mm       | 19                | 64.0        | 27           | 699        | 3.0   |
| Neocalanus plumchrus C-1     | 19                | 64.0        | 27           | 699        | 3.0   |
| Oithona spp.                 | 11                | 64.0        | 16           | 405        | 1.7   |
| Thysanoessa spinifera A&J    | 171               | 4.0         | 15           | 393        | 1.7   |
| Invertebrata - egg <5mm      | 10                | 64.0        | 14           | 368        | 1.6   |
| Metriididae C-3              | 9                 | 64.0        | 13           | 331        | 1.4   |
| Ostracoda <5mm               | 9                 | 64.0        | 13           | 331        | 1.4   |
| Calanus marshallae - adult M | 8                 | 64.0        | 11           | 294        | 1.3   |
| Metridia pacifica - adult M  | 8                 | 64.0        | 11           | 294        | 1.3   |
| Pseudocalanus spp. - adult M | 7                 | 64.0        | 10           | 258        | 1.1   |
| Thysanoessa inermis A&J      | 110               | 4.0         | 10           | 253        | 1.1   |
| Thecosomata <5mm             | 6                 | 64.0        | 9            | 221        | 0.9   |
| Metridia pacifica C-5 F      | 5                 | 64.0        | 7            | 184        | 0.8   |
| Metridia pacifica C-5 M      | 4                 | 64.0        | 6            | 147        | 0.6   |
| Calanus pacificus C-5        | 4                 | 64.0        | 6            | 147        | 0.6   |
| Chaetognatha 5-20mm          | 63                | 4.0         | 6            | 145        | 0.6   |
| Hyperiididae <5mm            | 2                 | 64.0        | 3            | 74         | 0.3   |
| Neocalanus cristatus C-2     | 2                 | 64.0        | 3            | 74         | 0.3   |
| Cnidaria - medusa >5mm       | 26                | 4.0         | 2            | 60         | 0.3   |
| Other Copepoda >5mm          | 20                | 4.0         | 2            | 46         | 0.2   |
| Other Copepoda damaged       | 1                 | 64.0        | 1            | 37         | 0.2   |
| Brachyura - larva            | 1                 | 64.0        | 1            | 37         | 0.2   |
| Pseudocalanus spp. C-5 M     | 1                 | 64.0        | 1            | 37         | 0.2   |
| Calanus pacificus - adult F  | 1                 | 64.0        | 1            | 37         | 0.2   |
| Teleostei - egg <5mm         | 1                 | 64.0        | 1            | 37         | 0.2   |
| Gammaridea <5mm              | 1                 | 64.0        | 1            | 37         | 0.2   |
| Chaetognatha <5mm            | 1                 | 64.0        | 1            | 37         | 0.2   |
| Acartia spp.                 | 1                 | 64.0        | 1            | 37         | 0.2   |
| Calanus marshallae C-5       | 1                 | 64.0        | 1            | 37         | 0.2   |
| Neocalanus cristatus C-3     | 1                 | 64.0        | 1            | 37         | 0.2   |
| Anomura - larva              | 1                 | 64.0        | 1            | 37         | 0.2   |
| Teleostei - larva >5mm       | 14                | 4.0         | 1            | 32         | 0.1   |
| Hyperiididae >5mm            | 13                | 4.0         | 1            | 30         | 0.1   |
| Gammaridea >5mm              | 10                | 4.0         | 1            | 23         | 0.1   |
| Euphausia pacifica A&J       | 3                 | 4.0         | < 1          | 7          | < 0.1 |
| Gymnosomata >5mm             | 2                 | 4.0         | < 1          | 5          | < 0.1 |
| Thysanoessa raschii A&J      | 2                 | 4.0         | < 1          | 5          | < 0.1 |
| Siphonophora >5mm            | 2                 | 4.0         | < 1          | 5          | < 0.1 |
| Other zooplankton >5mm       | 1                 | 4.0         | < 1          | 2          | < 0.1 |

|                           |   |     |       |       |       |
|---------------------------|---|-----|-------|-------|-------|
| Thysanoessa inspinata A&J | 1 | 4.0 | < 1   | 2     | < 0.1 |
| Eucalanus bungii C-5 F    | 1 | 4.0 | < 1   | 2     | < 0.1 |
| Polychaeta >5mm           | 1 | 4.0 | < 1   | 2     | < 0.1 |
| Nematoda >5mm             | 1 | 4.0 | < 1   | 2     | < 0.1 |
| Euphausiacea A&J damaged  | 1 | 4.0 | < 1   | 2     | < 0.1 |
|                           |   |     | ----- | ----- | ----- |
|                           |   |     | 916   | 23540 | 100.  |



STA. 024 57 34.0 N 155 00.3 W 16 Mar 85 13:02

DEPTH 232 SAMPLING INTERVAL 0 - 199 VOLUME FILTERED 328.7 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|--------------------------------|-------------------|-------------|--------------|------------|-------|
| Other Copepoda <2mm            | 77                | 64.0        | 150          | 2984       | 18.8  |
| Pseudocalanus spp. - adult F   | 67                | 64.0        | 130          | 2596       | 16.3  |
| Neocalanus plumchrus C-2       | 42                | 64.0        | 82           | 1627       | 10.2  |
| Other Copepoda 2-5mm           | 40                | 64.0        | 78           | 1550       | 9.8   |
| Metridia pacifica - adult F    | 22                | 64.0        | 43           | 852        | 5.4   |
| Metridia pacifica - adult M    | 19                | 64.0        | 37           | 736        | 4.6   |
| Ostracoda <5mm                 | 17                | 64.0        | 33           | 659        | 4.1   |
| Calanus marshallae - adult F   | 15                | 64.0        | 29           | 581        | 3.7   |
| Calanus marshallae - adult M   | 12                | 64.0        | 23           | 465        | 2.9   |
| Oithona spp.                   | 11                | 64.0        | 21           | 426        | 2.7   |
| Metridia pacifica C-4          | 9                 | 64.0        | 18           | 349        | 2.2   |
| Cnidaria - medusa <5mm         | 7                 | 64.0        | 14           | 271        | 1.7   |
| Invertebrata - egg <5mm        | 6                 | 64.0        | 12           | 232        | 1.5   |
| Calanus pacificus C-5          | 6                 | 64.0        | 12           | 232        | 1.5   |
| Siphonophora <5mm              | 5                 | 64.0        | 10           | 194        | 1.2   |
| Larvacea                       | 5                 | 64.0        | 10           | 194        | 1.2   |
| Thecosomata <5mm               | 5                 | 64.0        | 10           | 194        | 1.2   |
| Chaetognatha 5-20mm            | 129               | 2.0         | 8            | 156        | 1.0   |
| Metridia pacifica C-5 F        | 4                 | 64.0        | 8            | 155        | 1.0   |
| Pseudocalanus spp. - adult M   | 3                 | 64.0        | 6            | 116        | 0.7   |
| Metridia pacifica C-5 M        | 3                 | 64.0        | 6            | 116        | 0.7   |
| Gammaridea <5mm                | 3                 | 64.0        | 6            | 116        | 0.7   |
| Thysanoessa inermis A&J        | 68                | 2.0         | 4            | 82         | 0.5   |
| Calanus marshallae C-5         | 2                 | 64.0        | 4            | 77         | 0.5   |
| Hyperiidia <5mm                | 2                 | 64.0        | 4            | 77         | 0.5   |
| Neocalanus cristatus C-3       | 2                 | 64.0        | 4            | 77         | 0.5   |
| Neocalanus plumchrus - adult F | 2                 | 64.0        | 4            | 77         | 0.5   |
| Chaetognatha <5mm              | 2                 | 64.0        | 4            | 77         | 0.5   |
| Pseudocalanus spp. C-5 F       | 2                 | 64.0        | 4            | 77         | 0.5   |
| Cnidaria - medusa >5mm         | 43                | 2.0         | 3            | 52         | 0.3   |
| Teleostei - egg <5mm           | 1                 | 64.0        | 2            | 39         | 0.2   |
| Neocalanus plumchrus C-3       | 1                 | 64.0        | 2            | 39         | 0.2   |
| Metriididae C-3                | 1                 | 64.0        | 2            | 39         | 0.2   |
| Acartia spp.                   | 1                 | 64.0        | 2            | 39         | 0.2   |
| Neocalanus plumchrus - adult M | 1                 | 64.0        | 2            | 39         | 0.2   |
| Gymnosomata <5mm               | 1                 | 64.0        | 2            | 39         | 0.2   |
| Gastropoda - veliger <5mm      | 1                 | 64.0        | 2            | 39         | 0.2   |
| Polychaeta <5mm                | 1                 | 64.0        | 2            | 39         | 0.2   |
| Neocalanus plumchrus C-1       | 1                 | 64.0        | 2            | 39         | 0.2   |
| Thysanoessa spinifera A&J      | 21                | 2.0         | 1            | 25         | 0.2   |
| Siphonophora >5mm              | 18                | 2.0         | 1            | 22         | 0.1   |
| Polychaeta >5mm                | 16                | 2.0         | 1            | 19         | 0.1   |
| Gammaridea >5mm                | 12                | 2.0         | 1            | 15         | 0.1   |
| Other Copepoda >5mm            | 12                | 2.0         | 1            | 15         | 0.1   |
| Chaetognatha >20mm             | 9                 | 2.0         | 1            | 11         | 0.1   |
| Hyperiidia >5mm                | 6                 | 2.0         | < 1          | 7          | < 0.1 |

|                            |   |       |     |       |       |
|----------------------------|---|-------|-----|-------|-------|
| Mysidacea >5mm             | 5 | 2.0   | < 1 | 6     | < 0.1 |
| Teleostei - larva >5mm     | 5 | 2.0   | < 1 | 6     | < 0.1 |
| Eucalanus bungii - adult F | 3 | 2.0   | < 1 | 4     | < 0.1 |
| Eucalanus bungii C-5 F     | 3 | 2.0   | < 1 | 4     | < 0.1 |
| Neocalanus cristatus C-4   | 3 | 2.0   | < 1 | 4     | < 0.1 |
| Euphausia pacifica A&J     | 1 | 2.0   | < 1 | 1     | < 0.1 |
| Gymnosomata >5mm           | 1 | 2.0   | < 1 | 1     | < 0.1 |
| Eucalanus bungii C-5 M     | 1 | 2.0   | < 1 | 1     | < 0.1 |
| Other zooplankton >5mm     | 1 | 2.0   | < 1 | 1     | < 0.1 |
| Thysanoessa longipes A&J   | 1 | 2.0   | < 1 | 1     | < 0.1 |
| Thysanoessa inspinata A&J  | 1 | 2.0   | < 1 | 1     | < 0.1 |
|                            |   | ----- |     | ----- | ----- |
|                            |   | 799   |     | 15896 | 100.  |

STA. 025 57 33.2 N 154 52.8 W 16 Mar 85 15:58

DEPTH 223 SAMPLING INTERVAL 0 - 198 VOLUME FILTERED 297.2 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Pseudocalanus spp. - adult F | 105               | 32.0        | 113          | 2238       | 18.8 |
| Other Copepoda <2mm          | 100               | 32.0        | 108          | 2132       | 17.9 |
| Calanus marshallae - adult F | 69                | 32.0        | 74           | 1471       | 12.4 |
| Neocalanus plumchrus C-2     | 60                | 32.0        | 65           | 1279       | 10.8 |
| Calanus marshallae - adult M | 27                | 32.0        | 29           | 576        | 4.8  |
| Metridia pacifica - adult F  | 18                | 32.0        | 19           | 384        | 3.2  |
| Metriididae C-3              | 16                | 32.0        | 17           | 341        | 2.9  |
| Oithona spp.                 | 13                | 32.0        | 14           | 277        | 2.3  |
| Neocalanus plumchrus C-1     | 13                | 32.0        | 14           | 277        | 2.3  |
| Metridia pacifica - adult M  | 13                | 32.0        | 14           | 277        | 2.3  |
| Metridia pacifica C-4        | 12                | 32.0        | 13           | 256        | 2.2  |
| Other Copepoda 2-5mm         | 10                | 32.0        | 11           | 213        | 1.8  |
| Cnidaria - medusa <5mm       | 7                 | 32.0        | 8            | 149        | 1.3  |
| Chaetognatha 5-20mm          | 103               | 2.0         | 7            | 137        | 1.2  |
| Calanus pacificus C-5        | 6                 | 32.0        | 6            | 128        | 1.1  |
| Metridia pacifica C-5 F      | 5                 | 32.0        | 5            | 107        | 0.9  |
| Invertebrata - egg <5mm      | 5                 | 32.0        | 5            | 107        | 0.9  |
| Pseudocalanus spp. C-5 F     | 5                 | 32.0        | 5            | 107        | 0.9  |
| Other Copepoda damaged       | 5                 | 32.0        | 5            | 107        | 0.9  |
| Teleostei - egg <5mm         | 5                 | 32.0        | 5            | 107        | 0.9  |
| Thecosomata <5mm             | 5                 | 32.0        | 5            | 107        | 0.9  |
| Calanus marshallae C-5       | 4                 | 32.0        | 4            | 85         | 0.7  |
| Larvacea                     | 4                 | 32.0        | 4            | 85         | 0.7  |
| Thysanoessa spinifera A&J    | 61                | 2.0         | 4            | 81         | 0.7  |
| Metridia pacifica C-5 M      | 3                 | 32.0        | 3            | 64         | 0.5  |
| Siphonophora <5mm            | 3                 | 32.0        | 3            | 64         | 0.5  |
| Ostracoda <5mm               | 3                 | 32.0        | 3            | 64         | 0.5  |
| Neocalanus cristatus C-3     | 3                 | 32.0        | 3            | 64         | 0.5  |
| Cnidaria - medusa >5mm       | 43                | 2.0         | 3            | 57         | 0.5  |
| Calanus pacificus - adult F  | 2                 | 32.0        | 2            | 43         | 0.4  |
| Acartia spp.                 | 2                 | 32.0        | 2            | 43         | 0.4  |
| Neocalanus cristatus C-2     | 2                 | 32.0        | 2            | 43         | 0.4  |
| Pseudocalanus spp. - adult M | 2                 | 32.0        | 2            | 43         | 0.4  |
| Thysanoessa inermis A&J      | 27                | 2.0         | 2            | 36         | 0.3  |
| Hyperiidia >5mm              | 19                | 2.0         | 1            | 25         | 0.2  |
| Other zooplankton <5mm       | 1                 | 32.0        | 1            | 21         | 0.2  |
| Neocalanus plumchrus C-3     | 1                 | 32.0        | 1            | 21         | 0.2  |
| Hyperiidia <5mm              | 1                 | 32.0        | 1            | 21         | 0.2  |
| Gymnosomata <5mm             | 1                 | 32.0        | 1            | 21         | 0.2  |
| Nematoda >5mm                | 16                | 2.0         | 1            | 21         | 0.2  |
| Gastropoda - veliger <5mm    | 1                 | 32.0        | 1            | 21         | 0.2  |
| Brachyura - larva            | 1                 | 32.0        | 1            | 21         | 0.2  |
| Siphonophora >5mm            | 16                | 2.0         | 1            | 21         | 0.2  |
| Chaetognatha <5mm            | 1                 | 32.0        | 1            | 21         | 0.2  |
| Calanus pacificus - adult M  | 1                 | 32.0        | 1            | 21         | 0.2  |
| Chaetognatha >20mm           | 15                | 2.0         | 1            | 20         | 0.2  |

|                            |    |       |       |       |       |
|----------------------------|----|-------|-------|-------|-------|
| Mysidacea >5mm             | 12 | 2.0   | 1     | 16    | 0.1   |
| Gammaridea >5mm            | 10 | 2.0   | 1     | 13    | 0.1   |
| Eucalanus bungii C-5 F     | 9  | 2.0   | 1     | 12    | 0.1   |
| Eucalanus bungii - adult M | 5  | 2.0   | < 1   | 7     | 0.1   |
| Eucalanus bungii - adult F | 5  | 2.0   | < 1   | 7     | 0.1   |
| Neocalanus cristatus C-5   | 5  | 2.0   | < 1   | 7     | 0.1   |
| Thysanoessa longipes A&J   | 4  | 2.0   | < 1   | 5     | < 0.1 |
| Other Copepoda >5mm        | 3  | 2.0   | < 1   | 4     | < 0.1 |
| Thysanoessa raschii A&J    | 2  | 2.0   | < 1   | 3     | < 0.1 |
| Eucalanus bungii C-5 M     | 2  | 2.0   | < 1   | 3     | < 0.1 |
| Euphausia pacifica A&J     | 1  | 2.0   | < 1   | 1     | < 0.1 |
| Teleostei - larva >5mm     | 1  | 2.0   | < 1   | 1     | < 0.1 |
| Neocalanus cristatus C-4   | 1  | 2.0   | < 1   | 1     | < 0.1 |
|                            |    | ----- | ----- | ----- |       |
|                            |    | 600   | 11885 | 100.  |       |

STA. 029 57 19.4 N 155 06.1 W 17 Mar 85 2:00

DEPTH 226 SAMPLING INTERVAL 0 - 193 VOLUME FILTERED 340.5 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|--------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F   | 66                | 64.0        | 124          | 2394       | 13.6  |
| Other Copepoda <2mm            | 66                | 64.0        | 124          | 2394       | 13.6  |
| Ostracoda <5mm                 | 50                | 64.0        | 94           | 1814       | 10.3  |
| Calanus marshallae - adult F   | 48                | 64.0        | 90           | 1741       | 9.9   |
| Neocalanus plumchrus C-2       | 37                | 64.0        | 70           | 1342       | 7.6   |
| Metridia pacifica - adult M    | 28                | 64.0        | 53           | 1016       | 5.8   |
| Calanus pacificus C-5          | 26                | 64.0        | 49           | 943        | 5.3   |
| Calanus marshallae - adult M   | 24                | 64.0        | 45           | 871        | 4.9   |
| Other Copepoda 2-5mm           | 22                | 64.0        | 41           | 798        | 4.5   |
| Oithona spp.                   | 22                | 64.0        | 41           | 798        | 4.5   |
| Metridia pacifica - adult F    | 22                | 64.0        | 41           | 798        | 4.5   |
| Neocalanus plumchrus C-1       | 11                | 64.0        | 21           | 399        | 2.3   |
| Gammaridea <5mm                | 7                 | 64.0        | 13           | 254        | 1.4   |
| Metridia pacifica C-4          | 6                 | 64.0        | 11           | 218        | 1.2   |
| Metriididae C-3                | 4                 | 64.0        | 8            | 145        | 0.8   |
| Siphonophora >5mm              | 27                | 8.0         | 6            | 122        | 0.7   |
| Cnidaria - medusa >5mm         | 26                | 8.0         | 6            | 118        | 0.7   |
| Gammaridea >5mm                | 25                | 8.0         | 6            | 113        | 0.6   |
| Metridia pacifica C-5 F        | 3                 | 64.0        | 6            | 109        | 0.6   |
| Calanus marshallae C-5         | 3                 | 64.0        | 6            | 109        | 0.6   |
| Polychaeta >5mm                | 24                | 8.0         | 6            | 109        | 0.6   |
| Metridia pacifica C-5 M        | 3                 | 64.0        | 6            | 109        | 0.6   |
| Pseudocalanus spp. - adult M   | 3                 | 64.0        | 6            | 109        | 0.6   |
| Gymnosomata >5mm               | 21                | 8.0         | 5            | 95         | 0.5   |
| Neocalanus cristatus C-5       | 17                | 8.0         | 4            | 77         | 0.4   |
| Chaetognatha 5-20mm            | 17                | 8.0         | 4            | 77         | 0.4   |
| Acartia spp.                   | 2                 | 64.0        | 4            | 73         | 0.4   |
| Pseudocalanus spp. C-5 M       | 2                 | 64.0        | 4            | 73         | 0.4   |
| Other Copepoda >5mm            | 14                | 8.0         | 3            | 63         | 0.4   |
| Neocalanus plumchrus - adult F | 11                | 8.0         | 3            | 50         | 0.3   |
| Eucalanus bungii C-5 F         | 10                | 8.0         | 2            | 45         | 0.3   |
| Chaetognatha >20mm             | 8                 | 8.0         | 2            | 36         | 0.2   |
| Pseudocalanus spp. C-5 F       | 1                 | 64.0        | 2            | 36         | 0.2   |
| Eucalanus bungii C-5 M         | 8                 | 8.0         | 2            | 36         | 0.2   |
| Larvacea                       | 1                 | 64.0        | 2            | 36         | 0.2   |
| Eucalanus bungii - adult M     | 7                 | 8.0         | 2            | 32         | 0.2   |
| Eucalanus bungii C-4 M         | 6                 | 8.0         | 1            | 27         | 0.2   |
| Eucalanus bungii C-4 F         | 6                 | 8.0         | 1            | 27         | 0.2   |
| Thysanoessa spinifera A&J      | 5                 | 8.0         | 1            | 23         | 0.1   |
| Eucalanus bungii - adult F     | 2                 | 8.0         | < 1          | 9          | 0.1   |
| Euphausia pacifica A&J         | 1                 | 8.0         | < 1          | 5          | < 0.1 |
| Thysanoessa inermis A&J        | 1                 | 8.0         | < 1          | 5          | < 0.1 |
| Mysidacea >5mm                 | 1                 | 8.0         | < 1          | 5          | < 0.1 |
|                                |                   |             | 915          | 17654      | 100.  |

STA. 030 57 26.7 N 155 24.1 W 17 Mar 85 10:00

DEPTH 267 SAMPLING INTERVAL 0 - 245 VOLUME FILTERED 467.1 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|--------------------------------|-------------------|-------------|--------------|------------|-------|
| Calanus pacificus C-5          | 54                | 128.0       | 148          | 3626       | 17.0  |
| Ostracoda <5mm                 | 49                | 128.0       | 134          | 3290       | 15.4  |
| Pseudocalanus spp. - adult F   | 30                | 128.0       | 82           | 2014       | 9.5   |
| Calanus marshallae - adult F   | 27                | 128.0       | 74           | 1813       | 8.5   |
| Calanus marshallae - adult M   | 21                | 128.0       | 58           | 1410       | 6.6   |
| Other Copepoda <2mm            | 20                | 128.0       | 55           | 1343       | 6.3   |
| Metridia pacifica - adult F    | 20                | 128.0       | 55           | 1343       | 6.3   |
| Other Copepoda 2-5mm           | 18                | 128.0       | 49           | 1209       | 5.7   |
| Mysidacea <5mm                 | 12                | 128.0       | 33           | 806        | 3.8   |
| Metridia pacifica - adult M    | 11                | 128.0       | 30           | 739        | 3.5   |
| Gammaridea <5mm                | 9                 | 128.0       | 25           | 604        | 2.8   |
| Calanus marshallae C-5         | 6                 | 128.0       | 16           | 403        | 1.9   |
| Neocalanus plumchrus C-2       | 6                 | 128.0       | 16           | 403        | 1.9   |
| Metridia pacifica C-4          | 4                 | 128.0       | 11           | 269        | 1.3   |
| Pseudocalanus spp. - adult M   | 3                 | 128.0       | 8            | 201        | 0.9   |
| Chaetognatha >20mm             | 19                | 16.0        | 7            | 159        | 0.7   |
| Oithona spp.                   | 2                 | 128.0       | 5            | 134        | 0.6   |
| Metridia pacifica C-5 M        | 2                 | 128.0       | 5            | 134        | 0.6   |
| Thysanoessa inermis A&J        | 13                | 16.0        | 4            | 109        | 0.5   |
| Thysanoessa spinifera A&J      | 9                 | 16.0        | 3            | 76         | 0.4   |
| Metriididae C-3                | 1                 | 128.0       | 3            | 67         | 0.3   |
| Neocalanus plumchrus - adult F | 1                 | 128.0       | 3            | 67         | 0.3   |
| Eucalanus bungii C-4 F         | 1                 | 128.0       | 3            | 67         | 0.3   |
| Metridia pacifica C-5 F        | 1                 | 128.0       | 3            | 67         | 0.3   |
| Thecosomata <5mm               | 1                 | 128.0       | 3            | 67         | 0.3   |
| Siphonophora <5mm              | 1                 | 128.0       | 3            | 67         | 0.3   |
| Pseudocalanus spp. C-5 M       | 1                 | 128.0       | 3            | 67         | 0.3   |
| Neocalanus plumchrus C-3       | 1                 | 128.0       | 3            | 67         | 0.3   |
| Other Copepoda >5mm            | 8                 | 16.0        | 3            | 67         | 0.3   |
| Acartia spp.                   | 1                 | 128.0       | 3            | 67         | 0.3   |
| Eucalanus bungii C-5 F         | 8                 | 16.0        | 3            | 67         | 0.3   |
| Pseudocalanus spp. C-5 F       | 1                 | 128.0       | 3            | 67         | 0.3   |
| Cnidaria - medusa >5mm         | 7                 | 16.0        | 2            | 59         | 0.3   |
| Neocalanus cristatus C-5       | 7                 | 16.0        | 2            | 59         | 0.3   |
| Mysidacea >5mm                 | 7                 | 16.0        | 2            | 59         | 0.3   |
| Chaetognatha 5-20mm            | 6                 | 16.0        | 2            | 50         | 0.2   |
| Gammaridea >5mm                | 6                 | 16.0        | 2            | 50         | 0.2   |
| Eucalanus bungii C-5 M         | 5                 | 16.0        | 2            | 42         | 0.2   |
| Hyperiididae >5mm              | 4                 | 16.0        | 1            | 34         | 0.2   |
| Eucalanus bungii - adult F     | 2                 | 16.0        | 1            | 17         | 0.1   |
| Siphonophora >5mm              | 2                 | 16.0        | 1            | 17         | 0.1   |
| Euphausia pacifica A&J         | 1                 | 16.0        | < 1          | 8          | < 0.1 |
| Thysanoessa raschii A&J        | 1                 | 16.0        | < 1          | 8          | < 0.1 |
| Polychaeta >5mm                | 1                 | 16.0        | < 1          | 8          | < 0.1 |
| Eucalanus bungii - adult M     | 1                 | 16.0        | < 1          | 8          | < 0.1 |

|       |       |       |
|-------|-------|-------|
| ----- | ----- | ----- |
| 870   | 21309 | 100.  |

STA. 031 57 32.5 N 155 32.9 W 18 Mar 85 2:19

DEPTH 152 SAMPLING INTERVAL 0 - 140 VOLUME FILTERED 226.7 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Pseudocalanus spp. - adult F | 283               | 8.0         | 100          | 1398       | 38.7 |
| Metridia pacifica - adult F  | 156               | 8.0         | 55           | 771        | 21.4 |
| Neocalanus plumchrus C-2     | 80                | 8.0         | 28           | 395        | 11.0 |
| Thysanoessa spinifera A&J    | 76                | 4.0         | 13           | 188        | 5.2  |
| Other Copepoda <2mm          | 33                | 8.0         | 12           | 163        | 4.5  |
| Metridia pacifica C-4        | 26                | 8.0         | 9            | 128        | 3.6  |
| Metridia pacifica C-5 F      | 16                | 8.0         | 6            | 79         | 2.2  |
| Thysanoessa inermis A&J      | 24                | 4.0         | 4            | 59         | 1.6  |
| Metridia pacifica C-5 M      | 11                | 8.0         | 4            | 54         | 1.5  |
| Other Copepoda 2-5mm         | 10                | 8.0         | 4            | 49         | 1.4  |
| Chaetognatha 5-20mm          | 17                | 4.0         | 3            | 42         | 1.2  |
| Neocalanus cristatus C-2     | 8                 | 8.0         | 3            | 40         | 1.1  |
| Metriididae C-3              | 4                 | 8.0         | 1            | 20         | 0.5  |
| Calanus marshallae - adult F | 8                 | 4.0         | 1            | 20         | 0.5  |
| Ostracoda <5mm               | 4                 | 8.0         | 1            | 20         | 0.5  |
| Pseudocalanus spp. C-5 F     | 4                 | 8.0         | 1            | 20         | 0.5  |
| Calanus pacificus - adult F  | 8                 | 4.0         | 1            | 20         | 0.5  |
| Calanus pacificus C-5        | 8                 | 4.0         | 1            | 20         | 0.5  |
| Metridia pacifica - adult M  | 3                 | 8.0         | 1            | 15         | 0.4  |
| Oithona spp.                 | 3                 | 8.0         | 1            | 15         | 0.4  |
| Pseudocalanus spp. - adult M | 3                 | 8.0         | 1            | 15         | 0.4  |
| Acartia spp.                 | 3                 | 8.0         | 1            | 15         | 0.4  |
| Neocalanus cristatus C-3     | 2                 | 8.0         | 1            | 10         | 0.3  |
| Thecosomata <5mm             | 2                 | 8.0         | 1            | 10         | 0.3  |
| Pseudocalanus spp. C-5 M     | 2                 | 8.0         | 1            | 10         | 0.3  |
| Thysanoessa raschii A&J      | 4                 | 4.0         | 1            | 10         | 0.3  |
| Neocalanus plumchrus C-3     | 1                 | 8.0         | < 1          | 5          | 0.1  |
| Cladocera <5mm               | 1                 | 8.0         | < 1          | 5          | 0.1  |
| Cnidaria - medusa >5mm       | 1                 | 4.0         | < 1          | 2          | 0.1  |
| Euphausia pacifica A&J       | 1                 | 4.0         | < 1          | 2          | 0.1  |
| Eucalanus bungii - adult M   | 1                 | 4.0         | < 1          | 2          | 0.1  |
| Calanus pacificus - adult M  | 1                 | 4.0         | < 1          | 2          | 0.1  |
| Siphonophora >5mm            | 1                 | 4.0         | < 1          | 2          | 0.1  |
| Calanus marshallae C-5       | 1                 | 4.0         | < 1          | 2          | 0.1  |
|                              |                   |             | 258          | 3610       | 100. |



STA. 032 57 11.4 N 155 27.2 W 18 Mar 85 6:25

DEPTH 254 SAMPLING INTERVAL 0 - 222 VOLUME FILTERED 284.4 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Other Copepoda <2mm            | 89                | 32.0        | 100          | 2223       | 18.1 |
| Calanus marshallae - adult F   | 83                | 32.0        | 93           | 2073       | 16.9 |
| Pseudocalanus spp. - adult F   | 70                | 32.0        | 79           | 1748       | 14.3 |
| Metridia pacifica - adult F    | 48                | 32.0        | 54           | 1199       | 9.8  |
| Other Copepoda 2-5mm           | 31                | 32.0        | 35           | 774        | 6.3  |
| Calanus marshallae - adult M   | 31                | 32.0        | 35           | 774        | 6.3  |
| Metridia pacifica - adult M    | 15                | 32.0        | 17           | 375        | 3.1  |
| Ostracoda <5mm                 | 15                | 32.0        | 17           | 375        | 3.1  |
| Metridia pacifica C-4          | 11                | 32.0        | 12           | 275        | 2.2  |
| Calanus marshallae C-5         | 9                 | 32.0        | 10           | 225        | 1.8  |
| Neocalanus plumchrus C-2       | 24                | 10.7        | 9            | 200        | 1.6  |
| Calanus pacificus C-5          | 23                | 10.7        | 9            | 192        | 1.6  |
| Thysanoessa inermis A&J        | 30                | 8.0         | 8            | 187        | 1.5  |
| Gammaridea <5mm                | 7                 | 32.0        | 8            | 175        | 1.4  |
| Cnidaria - medusa <5mm         | 6                 | 32.0        | 7            | 150        | 1.2  |
| Hyperiidia <5mm                | 5                 | 32.0        | 6            | 125        | 1.0  |
| Metridia pacifica C-5 M        | 4                 | 32.0        | 5            | 100        | 0.8  |
| Cnidaria - medusa >5mm         | 13                | 8.0         | 4            | 81         | 0.7  |
| Thecosomata <5mm               | 3                 | 32.0        | 3            | 75         | 0.6  |
| Metridia pacifica C-5 F        | 2                 | 32.0        | 2            | 50         | 0.4  |
| Larvacea                       | 2                 | 32.0        | 2            | 50         | 0.4  |
| Siphonophora <5mm              | 2                 | 32.0        | 2            | 50         | 0.4  |
| Metridiidae C-3                | 2                 | 32.0        | 2            | 50         | 0.4  |
| Other Copepoda >5mm            | 7                 | 8.0         | 2            | 44         | 0.4  |
| Calanus pacificus - adult F    | 5                 | 10.7        | 2            | 42         | 0.3  |
| Chaetognatha 5-20mm            | 6                 | 8.0         | 2            | 37         | 0.3  |
| Chaetognatha >20mm             | 6                 | 8.0         | 2            | 37         | 0.3  |
| Oithona spp.                   | 4                 | 10.7        | 2            | 33         | 0.3  |
| Neocalanus plumchrus - adult F | 4                 | 10.7        | 2            | 33         | 0.3  |
| Thysanoessa spinifera A&J      | 5                 | 8.0         | 1            | 31         | 0.3  |
| Mysidacea >5mm                 | 5                 | 8.0         | 1            | 31         | 0.3  |
| Eucalanus bungii C-4 M         | 3                 | 10.7        | 1            | 25         | 0.2  |
| Neocalanus cristatus C-2       | 3                 | 10.7        | 1            | 25         | 0.2  |
| Euphausia pacifica A&J         | 4                 | 8.0         | 1            | 25         | 0.2  |
| Pseudocalanus spp. C-5 M       | 1                 | 32.0        | 1            | 25         | 0.2  |
| Eucalanus bungii C-5 F         | 4                 | 8.0         | 1            | 25         | 0.2  |
| Other Copepoda - nauplius      | 1                 | 32.0        | 1            | 25         | 0.2  |
| Mysidacea <5mm                 | 1                 | 32.0        | 1            | 25         | 0.2  |
| Other zooplankton <5mm         | 1                 | 32.0        | 1            | 25         | 0.2  |
| Bivalvia <5mm                  | 1                 | 32.0        | 1            | 25         | 0.2  |
| Pseudocalanus spp. - adult M   | 1                 | 32.0        | 1            | 25         | 0.2  |
| Pseudocalanus spp. C-5 F       | 1                 | 32.0        | 1            | 25         | 0.2  |
| Gammaridea >5mm                | 4                 | 8.0         | 1            | 25         | 0.2  |
| Siphonophora >5mm              | 3                 | 8.0         | 1            | 19         | 0.2  |
| Eucalanus bungii C-5 M         | 3                 | 8.0         | 1            | 19         | 0.2  |
| Neocalanus plumchrus C-5       | 2                 | 10.7        | 1            | 17         | 0.1  |

|                             |   |      |       |       |       |
|-----------------------------|---|------|-------|-------|-------|
| Neocalanus plumchrus C-3    | 2 | 10.7 | 1     | 17    | 0.1   |
| Eucalanus bungii - adult M  | 2 | 8.0  | 1     | 12    | 0.1   |
| Hyperiidea >5mm             | 2 | 8.0  | 1     | 12    | 0.1   |
| Neocalanus cristatus C-4    | 2 | 8.0  | 1     | 12    | 0.1   |
| Neocalanus plumchrus C-4    | 1 | 10.7 | < 1   | 8     | 0.1   |
| Calanus pacificus - adult M | 1 | 10.7 | < 1   | 8     | 0.1   |
| Neocalanus cristatus C-5    | 1 | 8.0  | < 1   | 6     | 0.1   |
| Euphausiacea A&J damaged    | 1 | 8.0  | < 1   | 6     | 0.1   |
|                             |   |      | ----- | ----- | ----- |
|                             |   |      | 552   | 12253 | 100.  |

STA. 035 57 21.1 N 155 52.7 W 19 Mar 85 12:37

DEPTH 84 SAMPLING INTERVAL 0 - 64 VOLUME FILTERED 130.3 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Pseudocalanus spp. - adult F | 121               | 8.0         | 74           | 475        | 21.8 |
| Thysanoessa inermis A&J      | 112               | 8.0         | 69           | 440        | 20.1 |
| Metridia pacifica - adult F  | 87                | 8.0         | 53           | 342        | 15.6 |
| Neocalanus plumchrus C-2     | 54                | 8.0         | 33           | 212        | 9.7  |
| Other Copepoda <2mm          | 51                | 8.0         | 31           | 200        | 9.2  |
| Thysanoessa spinifera A&J    | 36                | 8.0         | 22           | 141        | 6.5  |
| Metridia pacifica C-4        | 28                | 8.0         | 17           | 110        | 5.0  |
| Metridia pacifica C-5 M      | 10                | 8.0         | 6            | 39         | 1.8  |
| Metridia pacifica C-5 F      | 8                 | 8.0         | 5            | 31         | 1.4  |
| Metriididae C-3              | 7                 | 8.0         | 4            | 28         | 1.3  |
| Metridia pacifica - adult M  | 7                 | 8.0         | 4            | 28         | 1.3  |
| Chaetognatha 5-20mm          | 6                 | 8.0         | 4            | 24         | 1.1  |
| Cnidaria - medusa <5mm       | 4                 | 8.0         | 2            | 16         | 0.7  |
| Neocalanus cristatus C-2     | 4                 | 8.0         | 2            | 16         | 0.7  |
| Neocalanus plumchrus C-3     | 3                 | 8.0         | 2            | 12         | 0.5  |
| Calanus marshallae - adult M | 3                 | 8.0         | 2            | 12         | 0.5  |
| Neocalanus cristatus C-3     | 2                 | 8.0         | 1            | 8          | 0.4  |
| Neocalanus plumchrus C-1     | 2                 | 8.0         | 1            | 8          | 0.4  |
| Calanus marshallae - adult F | 2                 | 8.0         | 1            | 8          | 0.4  |
| Pseudocalanus spp. - adult M | 1                 | 8.0         | 1            | 4          | 0.2  |
| Nematoda >5mm                | 1                 | 8.0         | 1            | 4          | 0.2  |
| Gammaridea >5mm              | 1                 | 8.0         | 1            | 4          | 0.2  |
| Acartia spp.                 | 1                 | 8.0         | 1            | 4          | 0.2  |
| Oithona spp.                 | 1                 | 8.0         | 1            | 4          | 0.2  |
| Thysanoessa raschii A&J      | 1                 | 8.0         | 1            | 4          | 0.2  |
| Gammaridea <5mm              | 1                 | 8.0         | 1            | 4          | 0.2  |
| Calanus pacificus - adult M  | 1                 | 8.0         | 1            | 4          | 0.2  |
| Pseudocalanus spp. C-5 M     | 1                 | 8.0         | 1            | 4          | 0.2  |
|                              |                   |             | 341          | 2185       | 100. |

STA. 038 56 55.8 N 155 47.7 W 20 Mar 85 13:13

DEPTH 296 SAMPLING INTERVAL 0 - 225 VOLUME FILTERED 360.6 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Calanus marshallae - adult F | 50                | 256.0       | 355          | 7986       | 22.3  |
| Other Copepoda <2mm          | 43                | 256.0       | 305          | 6868       | 19.2  |
| Pseudocalanus spp. - adult F | 31                | 256.0       | 220          | 4951       | 13.8  |
| Metridia pacifica - adult F  | 27                | 256.0       | 192          | 4312       | 12.0  |
| Other Copepoda 2-5mm         | 11                | 256.0       | 78           | 1757       | 4.9   |
| Metridia pacifica - adult M  | 10                | 256.0       | 71           | 1597       | 4.5   |
| Calanus marshallae - adult M | 10                | 256.0       | 71           | 1597       | 4.5   |
| Ostracoda <5mm               | 8                 | 256.0       | 57           | 1278       | 3.6   |
| Calanus pacificus C-5        | 58                | 28.4        | 46           | 1028       | 2.9   |
| Calanus marshallae C-5       | 3                 | 256.0       | 21           | 479        | 1.3   |
| Gammaridea <5mm              | 3                 | 256.0       | 21           | 479        | 1.3   |
| Metridia pacifica C-4        | 3                 | 256.0       | 21           | 479        | 1.3   |
| Neocalanus plumchrus C-2     | 22                | 28.4        | 17           | 390        | 1.1   |
| Metridia pacifica C-5 F      | 2                 | 256.0       | 14           | 319        | 0.9   |
| Thysanoessa inermis A&J      | 29                | 16.0        | 13           | 289        | 0.8   |
| Euphausia pacifica A&J       | 22                | 16.0        | 10           | 220        | 0.6   |
| Metriididae C-3              | 1                 | 256.0       | 7            | 160        | 0.4   |
| Thecosomata <5mm             | 1                 | 256.0       | 7            | 160        | 0.4   |
| Metridia pacifica C-5 M      | 1                 | 256.0       | 7            | 160        | 0.4   |
| Pseudocalanus spp. C-5 F     | 1                 | 256.0       | 7            | 160        | 0.4   |
| Oithona spp.                 | 9                 | 28.4        | 7            | 159        | 0.4   |
| Neocalanus cristatus C-5     | 13                | 16.0        | 6            | 130        | 0.4   |
| Gammaridea >5mm              | 12                | 16.0        | 5            | 120        | 0.3   |
| Chaetognatha 5-20mm          | 11                | 16.0        | 5            | 110        | 0.3   |
| Siphonophora >5mm            | 8                 | 16.0        | 4            | 80         | 0.2   |
| Calanus pacificus - adult F  | 4                 | 28.4        | 3            | 71         | 0.2   |
| Cnidaria - medusa >5mm       | 7                 | 16.0        | 3            | 70         | 0.2   |
| Thysanoessa spinifera A&J    | 6                 | 16.0        | 3            | 60         | 0.2   |
| Hyperiididae >5mm            | 5                 | 16.0        | 2            | 50         | 0.1   |
| Eucalanus bungii C-5 F       | 5                 | 16.0        | 2            | 50         | 0.1   |
| Eucalanus bungii C-5 M       | 4                 | 16.0        | 2            | 40         | 0.1   |
| Other Copepoda >5mm          | 4                 | 16.0        | 2            | 40         | 0.1   |
| Neocalanus plumchrus C-1     | 2                 | 28.4        | 2            | 35         | 0.1   |
| Eucalanus bungii - adult F   | 2                 | 16.0        | 1            | 20         | 0.1   |
| Chaetognatha >20mm           | 2                 | 16.0        | 1            | 20         | 0.1   |
| Eucalanus bungii C-4 F       | 1                 | 28.4        | 1            | 18         | < 0.1 |
| Neocalanus cristatus C-3     | 1                 | 28.4        | 1            | 18         | < 0.1 |
| Calanus pacificus - adult M  | 1                 | 28.4        | 1            | 18         | < 0.1 |
| Mysidacea >5mm               | 1                 | 16.0        | < 1          | 10         | < 0.1 |
| Gymnosomata >5mm             | 1                 | 16.0        | < 1          | 10         | < 0.1 |
|                              |                   |             | 1591         | 35796      | 100.  |

STA. 039 57 07.0 N 156 11.2 W 20 Mar 85 17:49

DEPTH 78 SAMPLING INTERVAL 0 - 60 VOLUME FILTERED 117.0 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|--------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F   | 63                | 8.0         | 43           | 258        | 19.3  |
| Neocalanus plumchrus C-2       | 62                | 8.0         | 42           | 254        | 19.0  |
| Other Copepoda <2mm            | 52                | 8.0         | 36           | 213        | 15.9  |
| Neocalanus plumchrus C-1       | 21                | 8.0         | 14           | 86         | 6.4   |
| Oithona spp.                   | 17                | 8.0         | 12           | 70         | 5.2   |
| Calanus marshallae - adult F   | 79                | 1.6         | 11           | 65         | 4.8   |
| Cnidaria - medusa <5mm         | 15                | 8.0         | 10           | 62         | 4.6   |
| Chaetognatha 5-20mm            | 98                | 1.0         | 8            | 50         | 3.8   |
| Metriididae C-3                | 8                 | 8.0         | 5            | 33         | 2.5   |
| Hyperiididae <5mm              | 8                 | 8.0         | 5            | 33         | 2.5   |
| Metridia pacifica - adult F    | 37                | 1.6         | 5            | 30         | 2.3   |
| Ostracoda <5mm                 | 6                 | 8.0         | 4            | 25         | 1.8   |
| Calanus pacificus C-5          | 30                | 1.6         | 4            | 25         | 1.8   |
| Metridia pacifica - adult M    | 19                | 1.6         | 3            | 16         | 1.2   |
| Calanus marshallae - adult M   | 19                | 1.6         | 3            | 16         | 1.2   |
| Metridia pacifica C-4          | 17                | 1.6         | 2            | 14         | 1.0   |
| Larvacea                       | 3                 | 8.0         | 2            | 12         | 0.9   |
| Siphonophora <5mm              | 2                 | 8.0         | 1            | 8          | 0.6   |
| Gastropoda - veliger <5mm      | 2                 | 8.0         | 1            | 8          | 0.6   |
| Acartia spp.                   | 2                 | 8.0         | 1            | 8          | 0.6   |
| Gymnosomata <5mm               | 2                 | 8.0         | 1            | 8          | 0.6   |
| Thecosomata <5mm               | 2                 | 8.0         | 1            | 8          | 0.6   |
| Calanus marshallae C-5         | 8                 | 1.6         | 1            | 7          | 0.5   |
| Thysanoessa inermis A&J        | 10                | 1.0         | 1            | 5          | 0.4   |
| Pseudocalanus spp. C-5 M       | 1                 | 8.0         | 1            | 4          | 0.3   |
| Neocalanus cristatus C-2       | 1                 | 8.0         | 1            | 4          | 0.3   |
| Neocalanus plumchrus - adult F | 3                 | 1.6         | < 1          | 2          | 0.2   |
| Calanus pacificus - adult F    | 2                 | 1.6         | < 1          | 2          | 0.1   |
| Metridia pacifica C-5 M        | 2                 | 1.6         | < 1          | 2          | 0.1   |
| Neocalanus cristatus C-4       | 3                 | 1.0         | < 1          | 2          | 0.1   |
| Neocalanus cristatus C-5       | 3                 | 1.0         | < 1          | 2          | 0.1   |
| Eucalanus bungii C-5 F         | 3                 | 1.0         | < 1          | 2          | 0.1   |
| Euphausiacea A&J damaged       | 2                 | 1.0         | < 1          | 1          | 0.1   |
| Chaetognatha >20mm             | 2                 | 1.0         | < 1          | 1          | 0.1   |
| Eucalanus bungii C-5 M         | 2                 | 1.0         | < 1          | 1          | 0.1   |
| Calanus pacificus - adult M    | 1                 | 1.6         | < 1          | 1          | 0.1   |
| Thysanoessa spinifera A&J      | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Other Copepoda >5mm            | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Eucalanus bungii - adult M     | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Hyperiididae >5mm              | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Nematoda >5mm                  | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Mysidacea >5mm                 | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                                |                   |             | 223          | 1339       | 100.  |

STA. 040 56 58.2 N 156 18.7 W 20 Mar 85 19:39

DEPTH 121 SAMPLING INTERVAL 0 - 99 VOLUME FILTERED 155.9 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F | 84                | 16.0        | 86           | 854        | 25.0  |
| Cnidaria - medusa <5mm       | 62                | 16.0        | 64           | 630        | 18.4  |
| Neocalanus plumchrus C-2     | 59                | 16.0        | 61           | 600        | 17.5  |
| Oithona spp.                 | 28                | 16.0        | 29           | 285        | 8.3   |
| Metriididae C-3              | 20                | 16.0        | 21           | 203        | 5.9   |
| Neocalanus plumchrus C-1     | 17                | 16.0        | 17           | 173        | 5.0   |
| Natantia - larva             | 13                | 16.0        | 13           | 132        | 3.9   |
| Other Copepoda <2mm          | 11                | 16.0        | 11           | 112        | 3.3   |
| Acartia spp.                 | 10                | 16.0        | 10           | 102        | 3.0   |
| Anomura - larva              | 9                 | 16.0        | 9            | 91         | 2.7   |
| Thecosomata <5mm             | 4                 | 16.0        | 4            | 41         | 1.2   |
| Metriididae C-2              | 3                 | 16.0        | 3            | 30         | 0.9   |
| Neocalanus plumchrus C-3     | 3                 | 16.0        | 3            | 30         | 0.9   |
| Hyperiididae <5mm            | 3                 | 16.0        | 3            | 30         | 0.9   |
| Neocalanus cristatus C-2     | 2                 | 16.0        | 2            | 20         | 0.6   |
| Chaetognatha 5-20mm          | 27                | 1.0         | 2            | 17         | 0.5   |
| Calanus marshallae - adult F | 10                | 1.8         | 1            | 11         | 0.3   |
| Cnidaria - medusa >5mm       | 17                | 1.0         | 1            | 11         | 0.3   |
| Pseudocalanus spp. - adult M | 1                 | 16.0        | 1            | 10         | 0.3   |
| Pseudocalanus spp. C-5 F     | 1                 | 16.0        | 1            | 10         | 0.3   |
| Metridia pacifica - adult M  | 3                 | 1.8         | < 1          | 3          | 0.1   |
| Thysanoessa inermis A&J      | 5                 | 1.0         | < 1          | 3          | 0.1   |
| Thysanoessa spinifera A&J    | 5                 | 1.0         | < 1          | 3          | 0.1   |
| Metridia pacifica C-5 M      | 2                 | 1.8         | < 1          | 2          | 0.1   |
| Calanus pacificus - adult M  | 2                 | 1.8         | < 1          | 2          | 0.1   |
| Calanus pacificus C-5        | 2                 | 1.8         | < 1          | 2          | 0.1   |
| Eucalanus bungii C-5 M       | 3                 | 1.0         | < 1          | 2          | 0.1   |
| Eucalanus bungii C-5 F       | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Calanus marshallae C-5       | 1                 | 1.8         | < 1          | 1          | < 0.1 |
| Calanus pacificus - adult F  | 1                 | 1.8         | < 1          | 1          | < 0.1 |
| Neocalanus plumchrus C-5     | 1                 | 1.8         | < 1          | 1          | < 0.1 |
| Metridia pacifica C-4        | 1                 | 1.8         | < 1          | 1          | < 0.1 |
| Metridia pacifica - adult F  | 1                 | 1.8         | < 1          | 1          | < 0.1 |
| Thysanoessa inspinata A&J    | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Gymnosomata >5mm             | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Nematoda >5mm                | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Neocalanus cristatus C-4     | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                              |                   |             | 346          | 3421       | 100.  |

STA. 041 56 45.7 N 155 57.6 W 21 Mar 85 6:33

DEPTH 290 SAMPLING INTERVAL 0 - 221 VOLUME FILTERED 301.9 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Calanus marshallae - adult F   | 95                | 128.0       | 403          | 8902       | 24.5 |
| Other Copepoda <2mm            | 50                | 128.0       | 212          | 4685       | 12.9 |
| Pseudocalanus spp. - adult F   | 40                | 128.0       | 170          | 3748       | 10.3 |
| Metridia pacifica - adult F    | 33                | 128.0       | 140          | 3092       | 8.5  |
| Ostracoda <5mm                 | 29                | 128.0       | 123          | 2717       | 7.5  |
| Calanus marshallae - adult M   | 20                | 128.0       | 85           | 1874       | 5.2  |
| Neocalanus plumchrus C-2       | 72                | 25.6        | 61           | 1349       | 3.7  |
| Metridia pacifica - adult M    | 13                | 128.0       | 55           | 1218       | 3.4  |
| Gammaridea <5mm                | 12                | 128.0       | 51           | 1124       | 3.1  |
| Calanus pacificus C-5          | 60                | 25.6        | 51           | 1124       | 3.1  |
| Other Copepoda 2-5mm           | 11                | 128.0       | 47           | 1031       | 2.8  |
| Calanus marshallae C-5         | 9                 | 128.0       | 38           | 843        | 2.3  |
| Oithona spp.                   | 34                | 25.6        | 29           | 637        | 1.8  |
| Cnidaria - medusa <5mm         | 5                 | 128.0       | 21           | 469        | 1.3  |
| Metriididae C-3                | 4                 | 128.0       | 17           | 375        | 1.0  |
| Chaetognatha 5-20mm            | 56                | 8.0         | 15           | 328        | 0.9  |
| Metridia pacifica C-4          | 3                 | 128.0       | 13           | 281        | 0.8  |
| Neocalanus plumchrus C-1       | 13                | 25.6        | 11           | 244        | 0.7  |
| Cnidaria - medusa >5mm         | 40                | 8.0         | 11           | 234        | 0.6  |
| Thysanoessa spinifera A&J      | 33                | 8.0         | 9            | 193        | 0.5  |
| Thecosomata <5mm               | 2                 | 128.0       | 8            | 187        | 0.5  |
| Pseudocalanus spp. - adult M   | 2                 | 128.0       | 8            | 187        | 0.5  |
| Gammaridea >5mm                | 27                | 8.0         | 7            | 158        | 0.4  |
| Neocalanus plumchrus - adult F | 6                 | 25.6        | 5            | 112        | 0.3  |
| Thysanoessa inermis A&J        | 19                | 8.0         | 5            | 111        | 0.3  |
| Metridia pacifica C-5 F        | 1                 | 128.0       | 4            | 94         | 0.3  |
| Metridia pacifica C-5 M        | 1                 | 128.0       | 4            | 94         | 0.3  |
| Hyperiididae <5mm              | 1                 | 128.0       | 4            | 94         | 0.3  |
| Eucalanus bungii C-5 F         | 11                | 8.0         | 3            | 64         | 0.2  |
| Siphonophora >5mm              | 10                | 8.0         | 3            | 59         | 0.2  |
| Eucalanus bungii - adult F     | 10                | 8.0         | 3            | 59         | 0.2  |
| Acartia spp.                   | 3                 | 25.6        | 3            | 56         | 0.2  |
| Eucalanus bungii C-5 M         | 8                 | 8.0         | 2            | 47         | 0.1  |
| Eucalanus bungii - adult M     | 7                 | 8.0         | 2            | 41         | 0.1  |
| Calanus pacificus - adult M    | 2                 | 25.6        | 2            | 37         | 0.1  |
| Eucalanus bungii C-4 F         | 2                 | 25.6        | 2            | 37         | 0.1  |
| Neocalanus plumchrus C-3       | 2                 | 25.6        | 2            | 37         | 0.1  |
| Calanus pacificus - adult F    | 2                 | 25.6        | 2            | 37         | 0.1  |
| Neocalanus cristatus C-3       | 2                 | 25.6        | 2            | 37         | 0.1  |
| Neocalanus cristatus C-5       | 6                 | 8.0         | 2            | 35         | 0.1  |
| Mysidacea >5mm                 | 5                 | 8.0         | 1            | 29         | 0.1  |
| Hyperiididae >5mm              | 4                 | 8.0         | 1            | 23         | 0.1  |
| Chaetognatha >20mm             | 4                 | 8.0         | 1            | 23         | 0.1  |
| Mysidacea >5mm                 | 4                 | 8.0         | 1            | 23         | 0.1  |
| Neocalanus plumchrus C-4       | 1                 | 25.6        | 1            | 19         | 0.1  |
| Neocalanus cristatus C-2       | 1                 | 25.6        | 1            | 19         | 0.1  |

|                          |   |       |       |       |       |
|--------------------------|---|-------|-------|-------|-------|
| Neocalanus plumchrus C-5 | 1 | 25.6  | 1     | 19    | 0.1   |
| Eucalanus bungii C-4 M   | 1 | 25.6  | 1     | 19    | 0.1   |
| Other Copepoda >5mm      | 3 | 8.0   | 1     | 18    | < 0.1 |
| Euphausia pacifica A&J   | 3 | 8.0   | 1     | 18    | < 0.1 |
| Neocalanus cristatus C-4 | 3 | 8.0   | 1     | 18    | < 0.1 |
| Euphausiacea A&J damaged | 2 | 8.0   | 1     | 12    | < 0.1 |
| Polychaeta >5mm          | 2 | 8.0   | 1     | 12    | < 0.1 |
| Nematoda >5mm            | 1 | 8.0   | < 1   | 6     | < 0.1 |
|                          |   | ----- | ----- | ----- |       |
|                          |   | 1643  | 36313 | 100.  |       |



STA. 043 56 26.3 N 155 12.3 W 21 Mar 85 14:34

DEPTH 33 SAMPLING INTERVAL 0 - 19 VOLUME FILTERED 24.6 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Other Copepoda <2mm          | 64                | 1.0         | 26           | 49         | 19.8 |
| Pseudocalanus spp. - adult F | 64                | 1.0         | 26           | 49         | 19.8 |
| Anomura - larva              | 50                | 1.0         | 20           | 39         | 15.5 |
| Metridia pacifica - adult F  | 25                | 1.0         | 10           | 19         | 7.7  |
| Calanus marshallae - adult F | 23                | 1.0         | 9            | 18         | 7.1  |
| Cirripecta - nauplius <5mm   | 19                | 1.0         | 8            | 15         | 5.9  |
| Neocalanus plumchirus C-2    | 17                | 1.0         | 7            | 13         | 5.3  |
| Cumacea <5mm                 | 8                 | 1.0         | 3            | 6          | 2.5  |
| Natantia - larva             | 6                 | 1.0         | 2            | 5          | 1.9  |
| Gammaridea <5mm              | 5                 | 1.0         | 2            | 4          | 1.5  |
| Other Copepoda 2-5mm         | 5                 | 1.0         | 2            | 4          | 1.5  |
| Metridia pacifica C-4        | 4                 | 1.0         | 2            | 3          | 1.2  |
| Pseudocalanus spp. C-4 F     | 4                 | 1.0         | 2            | 3          | 1.2  |
| Calanus pacificus - adult F  | 4                 | 1.0         | 2            | 3          | 1.2  |
| Oithona spp.                 | 3                 | 1.0         | 1            | 2          | 0.9  |
| Acartia spp.                 | 2                 | 1.0         | 1            | 2          | 0.6  |
| Neocalanus cristatus C-3     | 2                 | 1.0         | 1            | 2          | 0.6  |
| Calanus pacificus - adult M  | 2                 | 1.0         | 1            | 2          | 0.6  |
| Metridia pacifica C-5 M      | 2                 | 1.0         | 1            | 2          | 0.6  |
| Pseudocalanus spp. - adult M | 2                 | 1.0         | 1            | 2          | 0.6  |
| Cnidaria - medusa <5mm       | 1                 | 1.0         | < 1          | 1          | 0.3  |
| Calanus marshallae C-5       | 1                 | 1.0         | < 1          | 1          | 0.3  |
| Metridiidae C-3              | 1                 | 1.0         | < 1          | 1          | 0.3  |
| Hyperiidea <5mm              | 1                 | 1.0         | < 1          | 1          | 0.3  |
| Calanus marshallae - adult M | 1                 | 1.0         | < 1          | 1          | 0.3  |
| Neocalanus plumchirus C-1    | 1                 | 1.0         | < 1          | 1          | 0.3  |
| Neocalanus plumchirus C-3    | 1                 | 1.0         | < 1          | 1          | 0.3  |
| Brachyura - larva            | 1                 | 1.0         | < 1          | 1          | 0.3  |
| Chaetognatha <5mm            | 1                 | 1.0         | < 1          | 1          | 0.3  |
| Gymnosomata <5mm             | 1                 | 1.0         | < 1          | 1          | 0.3  |
| Neocalanus plumchirus C-5    | 1                 | 1.0         | < 1          | 1          | 0.3  |
| Thecosomata <5mm             | 1                 | 1.0         | < 1          | 1          | 0.3  |
|                              |                   |             | 131          | 250        | 100. |

STA. 044 56 42.8 N 156 43.9 W 22 Mar 85 18:18

DEPTH 124 SAMPLING INTERVAL 0 - 100 VOLUME FILTERED 177.0 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|--------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-2       | 229               | 8.0         | 104          | 1035       | 43.9  |
| Pseudocalanus spp. - adult F   | 77                | 8.0         | 35           | 348        | 14.8  |
| Neocalanus plumchrus C-1       | 48                | 8.0         | 22           | 217        | 9.2   |
| Other Copepoda <2mm            | 38                | 8.0         | 17           | 172        | 7.3   |
| Cnidaria - medusa <5mm         | 28                | 8.0         | 13           | 127        | 5.4   |
| Acartia spp.                   | 16                | 8.0         | 7            | 72         | 3.1   |
| Hyperiidia <5mm                | 13                | 8.0         | 6            | 59         | 2.5   |
| Ostracoda <5mm                 | 13                | 8.0         | 6            | 59         | 2.5   |
| Oithona spp.                   | 13                | 8.0         | 6            | 59         | 2.5   |
| Metridiidae C-3                | 5                 | 8.0         | 2            | 23         | 1.0   |
| Neocalanus cristatus C-2       | 4                 | 8.0         | 2            | 18         | 0.8   |
| Calanus marshallae - adult F   | 19                | 1.6         | 2            | 17         | 0.7   |
| Chaetognatha 5-20mm            | 30                | 1.0         | 2            | 17         | 0.7   |
| Pseudocalanus spp. C-5 F       | 3                 | 8.0         | 1            | 14         | 0.6   |
| Natantia - larva               | 3                 | 8.0         | 1            | 14         | 0.6   |
| Calanus pacificus C-5          | 14                | 1.6         | 1            | 13         | 0.5   |
| Thecosomata <5mm               | 2                 | 8.0         | 1            | 9          | 0.4   |
| Other Copepoda 2-5mm           | 2                 | 8.0         | 1            | 9          | 0.4   |
| Gastropoda <5mm                | 2                 | 8.0         | 1            | 9          | 0.4   |
| Metridia pacifica C-4          | 8                 | 1.6         | 1            | 7          | 0.3   |
| Euphausiacea - calyptopis 2    | 1                 | 8.0         | < 1          | 5          | 0.2   |
| Anomura - larva                | 1                 | 8.0         | < 1          | 5          | 0.2   |
| Metridia pacifica - adult M    | 5                 | 1.6         | < 1          | 5          | 0.2   |
| Neocalanus cristatus C-3       | 1                 | 8.0         | < 1          | 5          | 0.2   |
| Pseudocalanus spp. C-5 M       | 1                 | 8.0         | < 1          | 5          | 0.2   |
| Metridia pacifica - adult F    | 5                 | 1.6         | < 1          | 5          | 0.2   |
| Siphonophora <5mm              | 1                 | 8.0         | < 1          | 5          | 0.2   |
| Other Copepoda damaged         | 1                 | 8.0         | < 1          | 5          | 0.2   |
| Brachyura - larva              | 1                 | 8.0         | < 1          | 5          | 0.2   |
| Cnidaria - medusa >5mm         | 7                 | 1.0         | < 1          | 4          | 0.2   |
| Calanus marshallae - adult M   | 3                 | 1.6         | < 1          | 3          | 0.1   |
| Calanus pacificus - adult F    | 3                 | 1.6         | < 1          | 3          | 0.1   |
| Euphausiacea A&J damaged       | 3                 | 1.0         | < 1          | 2          | 0.1   |
| Eucalanus bungii C-5 M         | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Metridia pacifica C-5 M        | 1                 | 1.6         | < 1          | 1          | < 0.1 |
| Calanus pacificus - adult M    | 1                 | 1.6         | < 1          | 1          | < 0.1 |
| Eucalanus bungii C-4 M         | 1                 | 1.6         | < 1          | 1          | < 0.1 |
| Neocalanus plumchrus C-4       | 1                 | 1.6         | < 1          | 1          | < 0.1 |
| Neocalanus plumchrus - adult F | 1                 | 1.6         | < 1          | 1          | < 0.1 |
| Eucalanus bungii C-4 F         | 1                 | 1.6         | < 1          | 1          | < 0.1 |
| Eucalanus bungii - adult F     | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Nematoda >5mm                  | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Other Copepoda >5mm            | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Natantia A&J >5mm              | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                                |                   |             | 236          | 2356       | 100.  |

STA. 045 56 28.2 N 156 18.3 W 22 Mar 85 22:27

DEPTH 233 SAMPLING INTERVAL 0 - 202 VOLUME FILTERED 358.9 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F | 287               | 16.0        | 128          | 2584       | 43.2  |
| Neocalanus plumchrus C-2     | 166               | 16.0        | 74           | 1495       | 25.0  |
| Metridia pacifica C-4        | 65                | 16.0        | 29           | 585        | 9.8   |
| Metriididae C-3              | 30                | 16.0        | 13           | 270        | 4.5   |
| Cnidaria - medusa <5mm       | 23                | 16.0        | 10           | 207        | 3.5   |
| Calanus marshallae - adult F | 112               | 1.8         | 6            | 113        | 1.9   |
| Thecosomata <5mm             | 11                | 16.0        | 5            | 99         | 1.7   |
| Metridia pacifica C-5 M      | 10                | 16.0        | 4            | 90         | 1.5   |
| Other Copepoda <2mm          | 10                | 16.0        | 4            | 90         | 1.5   |
| Chaetognatha 5-20mm          | 102               | 1.0         | 3            | 57         | 1.0   |
| Neocalanus plumchrus C-3     | 6                 | 16.0        | 3            | 54         | 0.9   |
| Other Copepoda 2-5mm         | 6                 | 16.0        | 3            | 54         | 0.9   |
| Oithona spp.                 | 42                | 1.8         | 2            | 43         | 0.7   |
| Ostracoda <5mm               | 4                 | 16.0        | 2            | 36         | 0.6   |
| Calanus pacificus C-5        | 30                | 1.8         | 2            | 30         | 0.5   |
| Calanus pacificus - adult F  | 22                | 1.8         | 1            | 22         | 0.4   |
| Pseudocalanus spp. - adult M | 2                 | 16.0        | 1            | 18         | 0.3   |
| Hyperiididae <5mm            | 2                 | 16.0        | 1            | 18         | 0.3   |
| Metridia pacifica - adult F  | 2                 | 16.0        | 1            | 18         | 0.3   |
| Neocalanus plumchrus C-1     | 2                 | 16.0        | 1            | 18         | 0.3   |
| Neocalanus cristatus C-4     | 26                | 1.0         | 1            | 15         | 0.2   |
| Siphonophora <5mm            | 1                 | 16.0        | < 1          | 9          | 0.2   |
| Metriididae C-2              | 1                 | 16.0        | < 1          | 9          | 0.2   |
| Neocalanus cristatus C-2     | 1                 | 16.0        | < 1          | 9          | 0.2   |
| Cnidaria - medusa >5mm       | 13                | 1.0         | < 1          | 7          | 0.1   |
| Thysanoessa inermis A&J      | 11                | 1.0         | < 1          | 6          | 0.1   |
| Calanus marshallae - adult M | 6                 | 1.8         | < 1          | 6          | 0.1   |
| Calanus marshallae C-5       | 4                 | 1.8         | < 1          | 4          | 0.1   |
| Teleostei - larva >5mm       | 4                 | 1.0         | < 1          | 2          | < 0.1 |
| Chaetognatha >20mm           | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Neocalanus cristatus C-5     | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Calanus pacificus - adult M  | 1                 | 1.8         | < 1          | 1          | < 0.1 |
| Thysanoessa spinifera A&J    | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Siphonophora >5mm            | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Siphonophora >5mm            | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                              |                   |             | 296          | 5976       | 100.  |

STA. 046 56 08.2 N 155 43.7 W 23 Mar 85 3:45

DEPTH 63 SAMPLING INTERVAL 0 - 40 VOLUME FILTERED 106.2 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Neocalanus plumchrus C-2     | 92                | 4.0         | 35           | 139        | 28.2 |
| Other Copepoda <2mm          | 59                | 4.0         | 22           | 89         | 18.1 |
| Pseudocalanus spp. - adult F | 51                | 4.0         | 19           | 77         | 15.6 |
| Neocalanus plumchrus C-3     | 32                | 4.0         | 12           | 48         | 9.8  |
| Metridia pacifica - adult F  | 9                 | 4.0         | 3            | 14         | 2.8  |
| Metriididae C-3              | 9                 | 4.0         | 3            | 14         | 2.8  |
| Thecosomata <5mm             | 8                 | 4.0         | 3            | 12         | 2.5  |
| Metridia pacifica C-4        | 7                 | 4.0         | 3            | 11         | 2.1  |
| Gastropoda - veliger <5mm    | 6                 | 4.0         | 2            | 9          | 1.8  |
| Chaetognatha 5-20mm          | 24                | 1.0         | 2            | 9          | 1.8  |
| Cnidaria - medusa <5mm       | 6                 | 4.0         | 2            | 9          | 1.8  |
| Acartia spp.                 | 11                | 2.0         | 2            | 8          | 1.7  |
| Hyperiididae <5mm            | 5                 | 4.0         | 2            | 8          | 1.5  |
| Pseudocalanus spp. - adult M | 3                 | 4.0         | 1            | 5          | 0.9  |
| Metriididae C-2              | 3                 | 4.0         | 1            | 5          | 0.9  |
| Calanus pacificus C-5        | 3                 | 4.0         | 1            | 5          | 0.9  |
| Calanus marshallae - adult F | 6                 | 2.0         | 1            | 5          | 0.9  |
| Oithona spp.                 | 5                 | 2.0         | 1            | 4          | 0.8  |
| Metridia pacifica C-5 F      | 2                 | 4.0         | 1            | 3          | 0.6  |
| Metridia pacifica C-5 M      | 2                 | 4.0         | 1            | 3          | 0.6  |
| Ostracoda <5mm               | 1                 | 4.0         | < 1          | 2          | 0.3  |
| Neocalanus plumchrus C-1     | 1                 | 4.0         | < 1          | 2          | 0.3  |
| Other Copepoda 2-5mm         | 1                 | 4.0         | < 1          | 2          | 0.3  |
| Calanus pacificus C-4        | 1                 | 4.0         | < 1          | 2          | 0.3  |
| Pseudocalanus spp. C-5 M     | 1                 | 4.0         | < 1          | 2          | 0.3  |
| Calanus pacificus - adult F  | 2                 | 2.0         | < 1          | 2          | 0.3  |
| Metriididae C-1              | 1                 | 4.0         | < 1          | 2          | 0.3  |
| Pseudocalanus spp. C-5 F     | 1                 | 4.0         | < 1          | 2          | 0.3  |
| Eucalanus bungii C-5 M       | 3                 | 1.0         | < 1          | 1          | 0.2  |
| Eucalanus bungii - adult F   | 3                 | 1.0         | < 1          | 1          | 0.2  |
| Gammaridea >5mm              | 3                 | 1.0         | < 1          | 1          | 0.2  |
| Eucalanus bungii C-5 F       | 2                 | 1.0         | < 1          | 1          | 0.2  |
| Calanus marshallae - adult M | 1                 | 2.0         | < 1          | 1          | 0.2  |
| Cnidaria - medusa >5mm       | 2                 | 1.0         | < 1          | 1          | 0.2  |
| Polychaeta >5mm              | 1                 | 1.0         | < 1          | < 1        | 0.1  |
| Hyperiididae >5mm            | 1                 | 1.0         | < 1          | < 1        | 0.1  |
| Siphonophora >5mm            | 1                 | 1.0         | < 1          | < 1        | 0.1  |
|                              |                   |             | 123          | 492        | 100. |

STA. 048 55 48.4 N 154 58.6 W 23 Mar 85 9:07

DEPTH 280 SAMPLING INTERVAL 0 - 266 VOLUME FILTERED 408.8 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Other Copepoda <2mm            | 31                | 64.0        | 49           | 1291       | 12.0 |
| Chaetognatha 5-20mm            | 120               | 16.0        | 47           | 1249       | 11.6 |
| Ostracoda <5mm                 | 25                | 64.0        | 39           | 1041       | 9.7  |
| Neocalanus plumchrus C-2       | 23                | 64.0        | 36           | 958        | 8.9  |
| Metridia pacifica C-4          | 18                | 64.0        | 28           | 750        | 7.0  |
| Invertebrata - egg <5mm        | 13                | 64.0        | 20           | 541        | 5.0  |
| Pseudocalanus spp. - adult F   | 13                | 64.0        | 20           | 541        | 5.0  |
| Metridia pacifica C-5 M        | 11                | 64.0        | 17           | 458        | 4.3  |
| Pseudocalanus spp. C-5 M       | 7                 | 64.0        | 11           | 291        | 2.7  |
| Oithona spp.                   | 7                 | 64.0        | 11           | 291        | 2.7  |
| Siphonophora <5mm              | 7                 | 64.0        | 11           | 291        | 2.7  |
| Neocalanus cristatus C-5       | 27                | 16.0        | 11           | 281        | 2.6  |
| Other Copepoda 2-5mm           | 6                 | 64.0        | 9            | 250        | 2.3  |
| Metridia pacifica - adult M    | 6                 | 64.0        | 9            | 250        | 2.3  |
| Eucalanus bungii - adult F     | 23                | 16.0        | 9            | 239        | 2.2  |
| Metriididae C-3                | 5                 | 64.0        | 8            | 208        | 1.9  |
| Eucalanus bungii C-5 M         | 19                | 16.0        | 7            | 198        | 1.8  |
| Neocalanus cristatus C-1       | 4                 | 64.0        | 6            | 167        | 1.6  |
| Eucalanus bungii C-5 F         | 15                | 16.0        | 6            | 156        | 1.5  |
| Neocalanus cristatus C-2       | 3                 | 64.0        | 5            | 125        | 1.2  |
| Pseudocalanus spp. C-5 F       | 2                 | 64.0        | 3            | 83         | 0.8  |
| Metridia pacifica C-5 F        | 2                 | 64.0        | 3            | 83         | 0.8  |
| Metridia pacifica - adult F    | 2                 | 64.0        | 3            | 83         | 0.8  |
| Pseudocalanus spp. - adult M   | 2                 | 64.0        | 3            | 83         | 0.8  |
| Neocalanus plumchrus C-3       | 2                 | 64.0        | 3            | 83         | 0.8  |
| Eucalanus bungii C-4 M         | 5                 | 21.3        | 3            | 69         | 0.6  |
| Other Copepoda >5mm            | 6                 | 16.0        | 2            | 62         | 0.6  |
| Siphonophora >5mm              | 6                 | 16.0        | 2            | 62         | 0.6  |
| Tessarabrachion oculatum A&J   | 5                 | 16.0        | 2            | 52         | 0.5  |
| Acartia spp.                   | 1                 | 64.0        | 2            | 42         | 0.4  |
| Neocalanus plumchrus C-1       | 1                 | 64.0        | 2            | 42         | 0.4  |
| Cumacea <5mm                   | 1                 | 64.0        | 2            | 42         | 0.4  |
| Gammaridea <5mm                | 1                 | 64.0        | 2            | 42         | 0.4  |
| Cnidaria - medusa <5mm         | 1                 | 64.0        | 2            | 42         | 0.4  |
| Neocalanus plumchrus - adult F | 1                 | 64.0        | 2            | 42         | 0.4  |
| Cnidaria - medusa >5mm         | 4                 | 16.0        | 2            | 42         | 0.4  |
| Calanus pacificus C-5          | 3                 | 21.3        | 2            | 42         | 0.4  |
| Eucalanus bungii C-4 F         | 3                 | 21.3        | 2            | 42         | 0.4  |
| Polychaeta >5mm                | 3                 | 16.0        | 1            | 31         | 0.3  |
| Hyperiidea >5mm                | 2                 | 16.0        | 1            | 21         | 0.2  |
| Mysidacea >5mm                 | 1                 | 16.0        | < 1          | 10         | 0.1  |
| Other zooplankton >5mm         | 1                 | 16.0        | < 1          | 10         | 0.1  |
| Thysanoessa longipes A&J       | 1                 | 16.0        | < 1          | 10         | 0.1  |
| Gammaridea >5mm                | 1                 | 16.0        | < 1          | 10         | 0.1  |
| Eucalanus bungii - adult M     | 1                 | 16.0        | < 1          | 10         | 0.1  |
| Chaetognatha >20mm             | 1                 | 16.0        | < 1          | 10         | 0.1  |

Teleostei - larva &gt;5mm

|   |      |       |       |       |
|---|------|-------|-------|-------|
| 1 | 16.0 | < 1   | 10    | 0.1   |
|   |      | ----- | ----- | ----- |
|   |      | 404   | 10740 | 100.  |

STA. 049 55 36.2 N 154 39.5 W 23 Mar 85 12:36

DEPTH 940 SAMPLING INTERVAL 0 - 700 VOLUME FILTERED 1097.2 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Ostracoda <5mm                 | 83                | 128.0       | 97           | 6778       | 15.0 |
| Chaetognatha 5-20mm            | 159               | 64.0        | 93           | 6492       | 14.3 |
| Neocalanus plumchrus C-3       | 65                | 128.0       | 76           | 5308       | 11.7 |
| Other Copepoda <2mm            | 47                | 128.0       | 55           | 3838       | 8.5  |
| Other Copepoda 2-5mm           | 43                | 128.0       | 50           | 3512       | 7.8  |
| Metridia pacifica C-4          | 24                | 128.0       | 28           | 1960       | 4.3  |
| Neocalanus plumchrus C-2       | 24                | 128.0       | 28           | 1960       | 4.3  |
| Metridia pacifica C-5 M        | 22                | 128.0       | 26           | 1797       | 4.0  |
| Eucalanus bungii - adult F     | 39                | 64.0        | 23           | 1592       | 3.5  |
| Calanus pacificus C-5          | 22                | 64.0        | 13           | 898        | 2.0  |
| Metridia pacifica - adult M    | 10                | 128.0       | 12           | 817        | 1.8  |
| Chaetognatha <5mm              | 10                | 128.0       | 12           | 817        | 1.8  |
| Oithona spp.                   | 8                 | 128.0       | 9            | 653        | 1.4  |
| Metridia pacifica C-5 F        | 8                 | 128.0       | 9            | 653        | 1.4  |
| Neocalanus cristatus C-5       | 15                | 64.0        | 9            | 612        | 1.4  |
| Neocalanus cristatus C-3       | 7                 | 128.0       | 8            | 572        | 1.3  |
| Metriididae C-3                | 14                | 64.0        | 8            | 572        | 1.3  |
| Eucalanus bungii C-5 M         | 13                | 64.0        | 8            | 531        | 1.2  |
| Thecosomata <5mm               | 6                 | 128.0       | 7            | 490        | 1.1  |
| Pseudocalanus spp. - adult F   | 11                | 64.0        | 6            | 449        | 1.0  |
| Eucalanus bungii - adult M     | 10                | 64.0        | 6            | 408        | 0.9  |
| Metridia pacifica - adult F    | 5                 | 128.0       | 6            | 408        | 0.9  |
| Eucalanus bungii C-5 F         | 9                 | 64.0        | 5            | 367        | 0.8  |
| Neocalanus plumchrus - adult F | 9                 | 64.0        | 5            | 367        | 0.8  |
| Neocalanus plumchrus C-1       | 4                 | 128.0       | 5            | 327        | 0.7  |
| Siphonophora <5mm              | 4                 | 128.0       | 5            | 327        | 0.7  |
| Euphausia pacifica A&J         | 7                 | 64.0        | 4            | 286        | 0.6  |
| Gastropoda <5mm                | 3                 | 128.0       | 3            | 245        | 0.5  |
| Gammaridea <5mm                | 3                 | 128.0       | 3            | 245        | 0.5  |
| Siphonophora >5mm              | 5                 | 64.0        | 3            | 204        | 0.5  |
| Larvacea                       | 2                 | 128.0       | 2            | 163        | 0.4  |
| Polychaeta >5mm                | 4                 | 64.0        | 2            | 163        | 0.4  |
| Polychaeta <5mm                | 2                 | 128.0       | 2            | 163        | 0.4  |
| Eucalanus bungii C-4 F         | 4                 | 64.0        | 2            | 163        | 0.4  |
| Metriididae C-2                | 4                 | 64.0        | 2            | 163        | 0.4  |
| Anomura - larva                | 2                 | 128.0       | 2            | 163        | 0.4  |
| Chaetognatha >20mm             | 3                 | 64.0        | 2            | 122        | 0.3  |
| Calanus marshallae C-4         | 2                 | 64.0        | 1            | 82         | 0.2  |
| Other Copepoda >5mm            | 2                 | 64.0        | 1            | 82         | 0.2  |
| Neocalanus plumchrus - adult M | 2                 | 64.0        | 1            | 82         | 0.2  |
| Calanus marshallae - adult F   | 2                 | 64.0        | 1            | 82         | 0.2  |
| Thysanoessa longipes A&J       | 2                 | 64.0        | 1            | 82         | 0.2  |
| Eucalanus bungii C-3           | 2                 | 64.0        | 1            | 82         | 0.2  |
| Neocalanus cristatus C-1       | 1                 | 128.0       | 1            | 82         | 0.2  |
| Pseudocalanus spp. C-5 F       | 1                 | 64.0        | 1            | 41         | 0.1  |
| Tessarabrachion oculatum A&J   | 1                 | 64.0        | 1            | 41         | 0.1  |

*Thysanoessa spinifera* A&J

|   |       |   |       |       |
|---|-------|---|-------|-------|
| 1 | 64.0  | 1 | 41    | 0.1   |
|   | ----- |   | ----- | ----- |
|   | 647   |   | 45284 | 100.  |



STA. 051 55 40.1 N 156 41.6 W 25 Mar 85 5:51

DEPTH 216 SAMPLING INTERVAL 0 - 191 VOLUME FILTERED 278.8 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Metridia pacifica - adult F  | 74                | 64.0        | 170          | 3245       | 18.0  |
| Pseudocalanus spp. - adult F | 69                | 64.0        | 158          | 3026       | 16.8  |
| Other Copepoda <2mm          | 62                | 64.0        | 142          | 2719       | 15.1  |
| Neocalanus plumchrus C-2     | 60                | 64.0        | 138          | 2631       | 14.6  |
| Metriididae C-3              | 57                | 64.0        | 131          | 2499       | 13.9  |
| Metridia pacifica C-4        | 38                | 64.0        | 87           | 1666       | 9.2   |
| Metridia pacifica C-5 F      | 6                 | 64.0        | 14           | 263        | 1.5   |
| Thysanoessa inermis A&J      | 81                | 4.0         | 12           | 222        | 1.2   |
| Metridia pacifica C-5 M      | 5                 | 64.0        | 11           | 219        | 1.2   |
| Calanus marshallae - adult F | 43                | 7.1         | 11           | 209        | 1.2   |
| Neocalanus plumchrus C-1     | 4                 | 64.0        | 9            | 175        | 1.0   |
| Metridia pacifica - adult M  | 3                 | 64.0        | 7            | 132        | 0.7   |
| Siphonophora <5mm            | 3                 | 64.0        | 7            | 132        | 0.7   |
| Larvacea                     | 2                 | 64.0        | 5            | 88         | 0.5   |
| Thecosomata <5mm             | 2                 | 64.0        | 5            | 88         | 0.5   |
| Calanus marshallae - adult M | 14                | 7.1         | 4            | 68         | 0.4   |
| Cirripedia - nauplius <5mm   | 1                 | 64.0        | 2            | 44         | 0.2   |
| Pseudocalanus spp. C-5 F     | 1                 | 64.0        | 2            | 44         | 0.2   |
| Other Copepoda 2-5mm         | 1                 | 64.0        | 2            | 44         | 0.2   |
| Cnidaria - medusa <5mm       | 1                 | 64.0        | 2            | 44         | 0.2   |
| Eucalanus bungii C-4 M       | 1                 | 64.0        | 2            | 44         | 0.2   |
| Neocalanus plumchrus C-3     | 1                 | 64.0        | 2            | 44         | 0.2   |
| Neocalanus cristatus C-2     | 1                 | 64.0        | 2            | 44         | 0.2   |
| Neocalanus cristatus C-3     | 1                 | 64.0        | 2            | 44         | 0.2   |
| Calanus pacificus - adult F  | 9                 | 7.1         | 2            | 44         | 0.2   |
| Calanus pacificus C-5        | 8                 | 7.1         | 2            | 39         | 0.2   |
| Oithona spp.                 | 7                 | 7.1         | 2            | 34         | 0.2   |
| Cnidaria - medusa >5mm       | 11                | 4.0         | 2            | 30         | 0.2   |
| Thysanoessa spinifera A&J    | 9                 | 4.0         | 1            | 25         | 0.1   |
| Chaetognatha 5-20mm          | 8                 | 4.0         | 1            | 22         | 0.1   |
| Acartia spp.                 | 4                 | 7.1         | 1            | 19         | 0.1   |
| Euphausia pacifica A&J       | 7                 | 4.0         | 1            | 19         | 0.1   |
| Euphausiacea - furcilia      | 3                 | 7.1         | 1            | 15         | 0.1   |
| Gammaridea >5mm              | 5                 | 4.0         | 1            | 14         | 0.1   |
| Euphausiacea A&J damaged     | 5                 | 4.0         | 1            | 14         | 0.1   |
| Eucalanus bungii C-5 M       | 2                 | 4.0         | < 1          | 5          | < 0.1 |
| Neocalanus cristatus C-4     | 1                 | 4.0         | < 1          | 3          | < 0.1 |
|                              |                   |             | 943          | 18014      | 100.  |

STA. 052 55 41.8 N 156 25.9 W 25 Mar 85 8:01

DEPTH 240 SAMPLING INTERVAL 0 - 229 VOLUME FILTERED 448.9 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Metridia pacifica - adult F    | 61                | 128.0       | 174          | 3983       | 15.4 |
| Calanus marshallae - adult F   | 45                | 128.0       | 128          | 2938       | 11.3 |
| Other Copepoda <2mm            | 38                | 128.0       | 108          | 2481       | 9.6  |
| Pseudocalanus spp. - adult F   | 31                | 128.0       | 88           | 2024       | 7.8  |
| Neocalanus plumchrus C-2       | 28                | 128.0       | 80           | 1828       | 7.1  |
| Calanus pacificus C-5          | 67                | 42.7        | 64           | 1459       | 5.6  |
| Euphausia pacifica A&J         | 69                | 32.0        | 49           | 1126       | 4.4  |
| Ostracoda <5mm                 | 16                | 128.0       | 46           | 1045       | 4.0  |
| Oithona spp.                   | 39                | 42.7        | 37           | 850        | 3.3  |
| Other Copepoda 2-5mm           | 13                | 128.0       | 37           | 849        | 3.3  |
| Siphonophora <5mm              | 11                | 128.0       | 31           | 718        | 2.8  |
| Calanus marshallae - adult M   | 10                | 128.0       | 29           | 653        | 2.5  |
| Metridia pacifica - adult M    | 10                | 128.0       | 29           | 653        | 2.5  |
| Metridia pacifica C-4          | 10                | 128.0       | 29           | 653        | 2.5  |
| Thysanoessa inermis A&J        | 35                | 32.0        | 25           | 571        | 2.2  |
| Chaetognatha 5-20mm            | 34                | 32.0        | 24           | 555        | 2.1  |
| Hyperiidia <5mm                | 8                 | 128.0       | 23           | 522        | 2.0  |
| Gammaridea <5mm                | 5                 | 128.0       | 14           | 326        | 1.3  |
| Neocalanus plumchrus C-1       | 4                 | 128.0       | 11           | 261        | 1.0  |
| Neocalanus plumchrus C-3       | 3                 | 128.0       | 9            | 196        | 0.8  |
| Gammaridea >5mm                | 11                | 32.0        | 8            | 180        | 0.7  |
| Euphausiacea - furcilia        | 6                 | 42.7        | 6            | 131        | 0.5  |
| Metridia pacifica C-5 M        | 2                 | 128.0       | 6            | 131        | 0.5  |
| Metridia pacifica C-5 F        | 2                 | 128.0       | 6            | 131        | 0.5  |
| Metriididae C-3                | 2                 | 128.0       | 6            | 131        | 0.5  |
| Calanus marshallae C-5         | 2                 | 128.0       | 6            | 131        | 0.5  |
| Eucalanus bungii - adult M     | 7                 | 32.0        | 5            | 114        | 0.4  |
| Neocalanus plumchrus - adult F | 5                 | 42.7        | 5            | 109        | 0.4  |
| Eucalanus bungii - adult F     | 6                 | 32.0        | 4            | 98         | 0.4  |
| Eucalanus bungii C-5 F         | 6                 | 32.0        | 4            | 98         | 0.4  |
| Cnidaria - medusa >5mm         | 6                 | 32.0        | 4            | 98         | 0.4  |
| Siphonophora >5mm              | 5                 | 32.0        | 4            | 82         | 0.3  |
| Eucalanus bungii C-4 M         | 3                 | 42.7        | 3            | 65         | 0.3  |
| Calanus pacificus - adult F    | 3                 | 42.7        | 3            | 65         | 0.3  |
| Larvacea                       | 1                 | 128.0       | 3            | 65         | 0.3  |
| Metriididae C-2                | 1                 | 128.0       | 3            | 65         | 0.3  |
| Pseudocalanus spp. - adult M   | 1                 | 128.0       | 3            | 65         | 0.3  |
| Mysidacea <5mm                 | 1                 | 128.0       | 3            | 65         | 0.3  |
| Thysanoessa spinifera A&J      | 4                 | 32.0        | 3            | 65         | 0.3  |
| Gastropoda <5mm                | 1                 | 128.0       | 3            | 65         | 0.3  |
| Eucalanus bungii C-4 F         | 2                 | 42.7        | 2            | 44         | 0.2  |
| Neocalanus cristatus C-5       | 2                 | 32.0        | 1            | 33         | 0.1  |
| Hyperiidia >5mm                | 2                 | 32.0        | 1            | 33         | 0.1  |
| Acartia spp.                   | 1                 | 42.7        | 1            | 22         | 0.1  |
| Neocalanus plumchrus - adult M | 1                 | 42.7        | 1            | 22         | 0.1  |
| Eucalanus bungii C-3           | 1                 | 42.7        | 1            | 22         | 0.1  |

|                             |   |       |       |       |     |
|-----------------------------|---|-------|-------|-------|-----|
| Calanus pacificus - adult M | 1 | 42.7  | 1     | 22    | 0.1 |
| Neocalanus cristatus C-4    | 1 | 32.0  | 1     | 16    | 0.1 |
| Nematoda >5mm               | 1 | 32.0  | 1     | 16    | 0.1 |
| Chaetognatha >20mm          | 1 | 32.0  | 1     | 16    | 0.1 |
|                             |   | ----- | ----- | ----- |     |
|                             |   | 1131  | 25893 | 100.  |     |

STA. 053 55 43.8 N 156 16.1 W 25 Mar 85 9:37

DEPTH 258 SAMPLING INTERVAL 0 - 245 VOLUME FILTERED 588.0 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Neocalanus plumchrus C-2     | 77                | 128.0       | 168          | 4106       | 14.7 |
| Other Copepoda <2mm          | 69                | 128.0       | 150          | 3680       | 13.2 |
| Metridia pacifica C-4        | 61                | 128.0       | 133          | 3253       | 11.6 |
| Metridia pacifica - adult F  | 56                | 128.0       | 122          | 2986       | 10.7 |
| Pseudocalanus spp. - adult F | 49                | 128.0       | 107          | 2613       | 9.4  |
| Calanus marshallae - adult F | 30                | 128.0       | 65           | 1600       | 5.7  |
| Neocalanus plumchrus C-3     | 25                | 128.0       | 54           | 1333       | 4.8  |
| Metriididae C-3              | 20                | 128.0       | 44           | 1067       | 3.8  |
| Cnidaria - medusa <5mm       | 16                | 128.0       | 35           | 853        | 3.1  |
| Ostracoda <5mm               | 13                | 128.0       | 28           | 693        | 2.5  |
| Metridia pacifica - adult M  | 11                | 128.0       | 24           | 587        | 2.1  |
| Oithona spp.                 | 10                | 128.0       | 22           | 533        | 1.9  |
| Other Copepoda 2-5mm         | 9                 | 128.0       | 20           | 480        | 1.7  |
| Chaetognatha 5-20mm          | 30                | 32.0        | 16           | 400        | 1.4  |
| Siphonophora <5mm            | 6                 | 128.0       | 13           | 320        | 1.1  |
| Neocalanus plumchrus C-1     | 6                 | 128.0       | 13           | 320        | 1.1  |
| Thysanoessa inermis A&J      | 23                | 32.0        | 13           | 307        | 1.1  |
| Euphausia pacifica A&J       | 21                | 32.0        | 11           | 280        | 1.0  |
| Neocalanus cristatus C-2     | 5                 | 128.0       | 11           | 267        | 1.0  |
| Metridia pacifica C-5 M      | 4                 | 128.0       | 9            | 213        | 0.8  |
| Metridia pacifica C-5 F      | 4                 | 128.0       | 9            | 213        | 0.8  |
| Calanus pacificus C-5        | 10                | 42.7        | 7            | 178        | 0.6  |
| Gammaridea <5mm              | 3                 | 128.0       | 7            | 160        | 0.6  |
| Gastropoda <5mm              | 2                 | 128.0       | 4            | 107        | 0.4  |
| Thecosomata <5mm             | 2                 | 128.0       | 4            | 107        | 0.4  |
| Neocalanus cristatus C-5     | 6                 | 32.0        | 3            | 80         | 0.3  |
| Euphausiacea A&J damaged     | 6                 | 32.0        | 3            | 80         | 0.3  |
| Cnidaria - medusa >5mm       | 6                 | 32.0        | 3            | 80         | 0.3  |
| Thysanoessa spinifera A&J    | 5                 | 32.0        | 3            | 67         | 0.2  |
| Eucalanus bungii - adult M   | 5                 | 32.0        | 3            | 67         | 0.2  |
| Calanus pacificus - adult F  | 3                 | 42.7        | 2            | 53         | 0.2  |
| Calanus marshallae - adult M | 1                 | 128.0       | 2            | 53         | 0.2  |
| Eucalanus bungii C-5 F       | 4                 | 32.0        | 2            | 53         | 0.2  |
| Hyperiididae <5mm            | 1                 | 128.0       | 2            | 53         | 0.2  |
| Eucalanus bungii - adult F   | 4                 | 32.0        | 2            | 53         | 0.2  |
| Siphonophora >5mm            | 4                 | 32.0        | 2            | 53         | 0.2  |
| Calanus marshallae C-4       | 1                 | 128.0       | 2            | 53         | 0.2  |
| Eucalanus bungii C-5 M       | 4                 | 32.0        | 2            | 53         | 0.2  |
| Pseudocalanus spp. C-5 M     | 1                 | 128.0       | 2            | 53         | 0.2  |
| Pseudocalanus spp. C-5 F     | 1                 | 128.0       | 2            | 53         | 0.2  |
| Anomura - larva              | 1                 | 128.0       | 2            | 53         | 0.2  |
| Calanus marshallae C-5       | 1                 | 128.0       | 2            | 53         | 0.2  |
| Larvacea                     | 1                 | 128.0       | 2            | 53         | 0.2  |
| Eucalanus bungii C-4 M       | 2                 | 42.7        | 1            | 36         | 0.1  |
| Gammaridea >5mm              | 2                 | 32.0        | 1            | 27         | 0.1  |
| Eucalanus bungii C-3         | 1                 | 42.7        | 1            | 18         | 0.1  |

|                                |   |       |       |       |       |
|--------------------------------|---|-------|-------|-------|-------|
| Euphausiacea - furcilia        | 1 | 42.7  | 1     | 18    | 0.1   |
| Neocalanus plumchrus - adult F | 1 | 42.7  | 1     | 18    | 0.1   |
| Calanus pacificus - adult M    | 1 | 42.7  | 1     | 18    | 0.1   |
| Euphausiacea - calyptopis 2    | 1 | 42.7  | 1     | 18    | 0.1   |
| Eucalanus bungii C-4 F         | 1 | 42.7  | 1     | 18    | 0.1   |
| Neocalanus cristatus C-4       | 1 | 32.0  | 1     | 13    | < 0.1 |
| Chaetognatha >20mm             | 1 | 32.0  | 1     | 13    | < 0.1 |
| Polychaeta >5mm                | 1 | 32.0  | 1     | 13    | < 0.1 |
| Other Copepoda >5mm            | 1 | 32.0  | 1     | 13    | < 0.1 |
|                                |   | ----- | ----- | ----- |       |
|                                |   | 1141  | 27945 | 100.  |       |

STA. 054 55 46.4 N 155 57.5 W 25 Mar 85 12:21

DEPTH 104 SAMPLING INTERVAL 0 - 85 VOLUME FILTERED 101.5 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-2     | 155               | 16.0        | 244          | 2076       | 33.0  |
| Pseudocalanus spp. - adult F | 36                | 16.0        | 57           | 482        | 7.7   |
| Other Copepoda <2mm          | 36                | 16.0        | 57           | 482        | 7.7   |
| Metriididae C-3              | 35                | 16.0        | 55           | 469        | 7.4   |
| Cnidaria - medusa <5mm       | 27                | 16.0        | 43           | 362        | 5.7   |
| Metridia pacifica C-4        | 24                | 16.0        | 38           | 321        | 5.1   |
| Neocalanus plumchrus C-3     | 23                | 16.0        | 36           | 308        | 4.9   |
| Oithona spp.                 | 20                | 16.0        | 32           | 268        | 4.3   |
| Chaetognatha 5-20mm          | 154               | 2.0         | 30           | 258        | 4.1   |
| Metridia pacifica - adult F  | 11                | 16.0        | 17           | 147        | 2.3   |
| Neocalanus cristatus C-2     | 11                | 16.0        | 17           | 147        | 2.3   |
| Metridia pacifica C-5 M      | 9                 | 16.0        | 14           | 121        | 1.9   |
| Thysanoessa inermis A&J      | 63                | 2.0         | 12           | 105        | 1.7   |
| Gymnosomata <5mm             | 6                 | 16.0        | 9            | 80         | 1.3   |
| Calanus marshallae - adult F | 44                | 2.0         | 9            | 74         | 1.2   |
| Thecosomata <5mm             | 5                 | 16.0        | 8            | 67         | 1.1   |
| Siphonophora <5mm            | 4                 | 16.0        | 6            | 54         | 0.9   |
| Other Copepoda 2-5mm         | 4                 | 16.0        | 6            | 54         | 0.9   |
| Neocalanus plumchrus C-1     | 4                 | 16.0        | 6            | 54         | 0.9   |
| Ostracoda <5mm               | 3                 | 16.0        | 5            | 40         | 0.6   |
| Pseudocalanus spp. C-5 F     | 3                 | 16.0        | 5            | 40         | 0.6   |
| Cirripecta - nauplius <5mm   | 3                 | 16.0        | 5            | 40         | 0.6   |
| Hyperiididae <5mm            | 2                 | 16.0        | 3            | 27         | 0.4   |
| Metridia pacifica - adult M  | 2                 | 16.0        | 3            | 27         | 0.4   |
| Gastropoda - veliger <5mm    | 2                 | 16.0        | 3            | 27         | 0.4   |
| Neocalanus cristatus C-3     | 2                 | 16.0        | 3            | 27         | 0.4   |
| Anomura - larva              | 1                 | 16.0        | 2            | 13         | 0.2   |
| Gammaridea <5mm              | 1                 | 16.0        | 2            | 13         | 0.2   |
| Neocalanus cristatus C-1     | 1                 | 16.0        | 2            | 13         | 0.2   |
| Acartia spp.                 | 1                 | 16.0        | 2            | 13         | 0.2   |
| Pseudocalanus spp. C-5 M     | 1                 | 16.0        | 2            | 13         | 0.2   |
| Metridia pacifica C-5 F      | 1                 | 16.0        | 2            | 13         | 0.2   |
| Cnidaria - medusa >5mm       | 5                 | 2.0         | 1            | 8          | 0.1   |
| Thysanoessa spinifera A&J    | 5                 | 2.0         | 1            | 8          | 0.1   |
| Calanus marshallae - adult M | 5                 | 2.0         | 1            | 8          | 0.1   |
| Eucalanus bungii C-5 M       | 5                 | 2.0         | 1            | 8          | 0.1   |
| Eucalanus bungii - adult F   | 4                 | 2.0         | 1            | 7          | 0.1   |
| Eucalanus bungii - adult M   | 2                 | 2.0         | < 1          | 3          | 0.1   |
| Siphonophora >5mm            | 2                 | 2.0         | < 1          | 3          | 0.1   |
| Calanus marshallae C-5       | 2                 | 2.0         | < 1          | 3          | 0.1   |
| Eucalanus bungii C-4 M       | 1                 | 2.0         | < 1          | 2          | < 0.1 |
| Calanus marshallae C-4       | 1                 | 2.0         | < 1          | 2          | < 0.1 |
| Calanus pacificus C-5        | 1                 | 2.0         | < 1          | 2          | < 0.1 |
| Eucalanus bungii C-4 F       | 1                 | 2.0         | < 1          | 2          | < 0.1 |
| Eucalanus bungii C-5 F       | 1                 | 2.0         | < 1          | 2          | < 0.1 |
| Nematoda >5mm                | 1                 | 2.0         | < 1          | 2          | < 0.1 |

|                             |   |       |       |       |       |
|-----------------------------|---|-------|-------|-------|-------|
| Polychaeta >5mm             | 1 | 2.0   | < 1   | 2     | < 0.1 |
| Calanus pacificus - adult M | 1 | 2.0   | < 1   | 2     | < 0.1 |
|                             |   | ----- | ----- | ----- | ----- |
|                             |   | 741   |       | 6301  | 100.  |

STA. 055 55 52.2 N 156 13.7 W 25 Mar 85 16:02

DEPTH 215 SAMPLING INTERVAL 0 - 198 VOLUME FILTERED 329.2 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Calanus marshallae - adult F   | 191               | 32.0        | 186          | 3676       | 16.1 |
| Pseudocalanus spp. - adult F   | 191               | 32.0        | 186          | 3676       | 16.1 |
| Neocalanus plumchrus C-2       | 148               | 32.0        | 144          | 2849       | 12.5 |
| Other Copepoda <2mm            | 125               | 32.0        | 122          | 2406       | 10.5 |
| Metridia pacifica - adult F    | 90                | 32.0        | 87           | 1732       | 7.6  |
| Calanus pacificus C-5          | 45                | 32.0        | 44           | 866        | 3.8  |
| Calanus marshallae - adult M   | 39                | 32.0        | 38           | 751        | 3.3  |
| Ostracoda <5mm                 | 37                | 32.0        | 36           | 712        | 3.1  |
| Other Copepoda 2-5mm           | 34                | 32.0        | 33           | 654        | 2.9  |
| Metriididae C-3                | 34                | 32.0        | 33           | 654        | 2.9  |
| Metridia pacifica C-4          | 29                | 32.0        | 28           | 558        | 2.4  |
| Oithona spp.                   | 26                | 32.0        | 25           | 500        | 2.2  |
| Metridia pacifica - adult M    | 20                | 32.0        | 19           | 385        | 1.7  |
| Neocalanus plumchrus C-1       | 14                | 32.0        | 14           | 269        | 1.2  |
| Metridia pacifica C-5 M        | 12                | 32.0        | 12           | 231        | 1.0  |
| Invertebrata - egg <5mm        | 12                | 32.0        | 12           | 231        | 1.0  |
| Chaetognatha 5-20mm            | 92                | 4.0         | 11           | 221        | 1.0  |
| Hyperiididae <5mm              | 11                | 32.0        | 11           | 212        | 0.9  |
| Cnidaria - medusa <5mm         | 10                | 32.0        | 10           | 192        | 0.8  |
| Neocalanus plumchrus C-3       | 10                | 32.0        | 10           | 192        | 0.8  |
| Calanus marshallae C-5         | 9                 | 32.0        | 9            | 173        | 0.8  |
| Mysidacea <5mm                 | 8                 | 32.0        | 8            | 154        | 0.7  |
| Siphonophora <5mm              | 7                 | 32.0        | 7            | 135        | 0.6  |
| Pseudocalanus spp. C-5 M       | 6                 | 32.0        | 6            | 115        | 0.5  |
| Metridia pacifica C-5 F        | 6                 | 32.0        | 6            | 115        | 0.5  |
| Gammaridea <5mm                | 6                 | 32.0        | 6            | 115        | 0.5  |
| Gammaridea >5mm                | 47                | 4.0         | 6            | 113        | 0.5  |
| Thysanoessa inermis A&J        | 46                | 4.0         | 6            | 111        | 0.5  |
| Euphausia pacifica A&J         | 26                | 4.0         | 3            | 63         | 0.3  |
| Neocalanus plumchrus - adult F | 3                 | 32.0        | 3            | 58         | 0.3  |
| Pseudocalanus spp. C-5 F       | 3                 | 32.0        | 3            | 58         | 0.3  |
| Acartia spp.                   | 3                 | 32.0        | 3            | 58         | 0.3  |
| Cnidaria - medusa >5mm         | 20                | 4.0         | 2            | 48         | 0.2  |
| Siphonophora >5mm              | 18                | 4.0         | 2            | 43         | 0.2  |
| Thecosomata <5mm               | 2                 | 32.0        | 2            | 38         | 0.2  |
| Gastropoda - veliger <5mm      | 2                 | 32.0        | 2            | 38         | 0.2  |
| Neocalanus cristatus C-5       | 16                | 4.0         | 2            | 38         | 0.2  |
| Other Copepoda >5mm            | 15                | 4.0         | 2            | 36         | 0.2  |
| Eucalanus bungii C-5 F         | 14                | 4.0         | 2            | 34         | 0.1  |
| Eucalanus bungii C-5 M         | 12                | 4.0         | 1            | 29         | 0.1  |
| Eucalanus bungii - adult M     | 12                | 4.0         | 1            | 29         | 0.1  |
| Mysidacea >5mm                 | 9                 | 4.0         | 1            | 22         | 0.1  |
| Gymnosomata <5mm               | 1                 | 32.0        | 1            | 19         | 0.1  |
| Eucalanus bungii - adult M     | 1                 | 32.0        | 1            | 19         | 0.1  |
| Calanus pacificus - adult F    | 1                 | 32.0        | 1            | 19         | 0.1  |
| Invertebrata <5mm              | 1                 | 32.0        | 1            | 19         | 0.1  |



|                            |   |      |       |       |       |
|----------------------------|---|------|-------|-------|-------|
| Other zooplankton <5mm     | 1 | 32.0 | 1     | 19    | 0.1   |
| Hyperiidea >5mm            | 8 | 4.0  | 1     | 19    | 0.1   |
| Natantia - larva           | 1 | 32.0 | 1     | 19    | 0.1   |
| Radiolaria <5mm            | 1 | 32.0 | 1     | 19    | 0.1   |
| Polychaeta <5mm            | 1 | 32.0 | 1     | 19    | 0.1   |
| Chaetognatha >20mm         | 7 | 4.0  | 1     | 17    | 0.1   |
| Polychaeta >5mm            | 4 | 4.0  | < 1   | 10    | < 0.1 |
| Thysanoessa spinifera A&J  | 4 | 4.0  | < 1   | 10    | < 0.1 |
| Teleostei - larva >5mm     | 3 | 4.0  | < 1   | 7     | < 0.1 |
| Eucalanus bungii - adult F | 3 | 4.0  | < 1   | 7     | < 0.1 |
| Gymnosomata >5mm           | 2 | 4.0  | < 1   | 5     | < 0.1 |
| Neocalanus cristatus C-4   | 1 | 4.0  | < 1   | 2     | < 0.1 |
| Nematoda >5mm              | 1 | 4.0  | < 1   | 2     | < 0.1 |
|                            |   |      | ----- | ----- | ----- |
|                            |   |      | 1153  | 22829 | 100.  |

STA. 056 55 56.3 N 156 25.4 W 25 Mar 85 19:05

DEPTH 214 SAMPLING INTERVAL 0 - 215 VOLUME FILTERED 445.2 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F | 151               | 64.0        | 217          | 4667       | 20.0  |
| Calanus marshallae - adult F | 144               | 64.0        | 207          | 4451       | 19.1  |
| Neocalanus plumchrus C-2     | 88                | 64.0        | 127          | 2720       | 11.7  |
| Metridia pacifica - adult F  | 72                | 64.0        | 104          | 2225       | 9.5   |
| Other Copepoda <2mm          | 70                | 64.0        | 101          | 2164       | 9.3   |
| Oithona spp.                 | 22                | 64.0        | 32           | 680        | 2.9   |
| Calanus marshallae - adult M | 22                | 64.0        | 32           | 680        | 2.9   |
| Metridia pacifica - adult M  | 21                | 64.0        | 30           | 649        | 2.8   |
| Other Copepoda 2-5mm         | 18                | 64.0        | 26           | 556        | 2.4   |
| Metriididae C-3              | 16                | 64.0        | 23           | 495        | 2.1   |
| Metridia pacifica C-4        | 14                | 64.0        | 20           | 433        | 1.9   |
| Calanus pacificus C-5        | 13                | 64.0        | 19           | 402        | 1.7   |
| Ostracoda <5mm               | 11                | 64.0        | 16           | 340        | 1.5   |
| Cnidaria - medusa <5mm       | 10                | 64.0        | 14           | 309        | 1.3   |
| Chaetognatha 5-20mm          | 68                | 8.0         | 12           | 263        | 1.1   |
| Neocalanus plumchrus C-3     | 8                 | 64.0        | 12           | 247        | 1.1   |
| Neocalanus plumchrus C-1     | 8                 | 64.0        | 12           | 247        | 1.1   |
| Thysanoessa inermis A&J      | 57                | 8.0         | 10           | 220        | 0.9   |
| Metridia pacifica C-5 M      | 7                 | 64.0        | 10           | 216        | 0.9   |
| Metridia pacifica C-5 F      | 7                 | 64.0        | 10           | 216        | 0.9   |
| Calanus pacificus - adult F  | 6                 | 64.0        | 9            | 185        | 0.8   |
| Cnidaria - medusa >5mm       | 36                | 8.0         | 6            | 139        | 0.6   |
| Siphonophora <5mm            | 4                 | 64.0        | 6            | 124        | 0.5   |
| Pseudocalanus spp. C-5 F     | 3                 | 64.0        | 4            | 93         | 0.4   |
| Calanus marshallae C-5       | 3                 | 64.0        | 4            | 93         | 0.4   |
| Thysanoessa spinifera A&J    | 21                | 8.0         | 4            | 81         | 0.3   |
| Chaetognatha <5mm            | 2                 | 64.0        | 3            | 62         | 0.3   |
| Hyperiididae <5mm            | 2                 | 64.0        | 3            | 62         | 0.3   |
| Eucalanus bungii C-5 F       | 9                 | 8.0         | 2            | 35         | 0.1   |
| Thecosomata <5mm             | 1                 | 64.0        | 1            | 31         | 0.1   |
| Eucalanus bungii C-4 F       | 1                 | 64.0        | 1            | 31         | 0.1   |
| Neocalanus cristatus C-3     | 1                 | 64.0        | 1            | 31         | 0.1   |
| Pseudocalanus spp. C-5 M     | 1                 | 64.0        | 1            | 31         | 0.1   |
| Acartia spp.                 | 1                 | 64.0        | 1            | 31         | 0.1   |
| Eucalanus bungii - adult M   | 5                 | 8.0         | 1            | 19         | 0.1   |
| Eucalanus bungii - adult F   | 4                 | 8.0         | 1            | 15         | 0.1   |
| Euphausia pacifica A&J       | 4                 | 8.0         | 1            | 15         | 0.1   |
| Siphonophora >5mm            | 3                 | 8.0         | 1            | 12         | < 0.1 |
| Eucalanus bungii C-5 M       | 3                 | 8.0         | 1            | 12         | < 0.1 |
| Chaetognatha >20mm           | 3                 | 8.0         | 1            | 12         | < 0.1 |
| Neocalanus cristatus C-5     | 3                 | 8.0         | 1            | 12         | < 0.1 |
| Thysanoessa raschii A&J      | 2                 | 8.0         | < 1          | 8          | < 0.1 |
| Gammaridea >5mm              | 2                 | 8.0         | < 1          | 8          | < 0.1 |
| Mysidacea >5mm               | 1                 | 8.0         | < 1          | 4          | < 0.1 |
| Neocalanus cristatus C-5     | 1                 | 8.0         | < 1          | 4          | < 0.1 |
| Hyperiididae >5mm            | 1                 | 8.0         | < 1          | 4          | < 0.1 |

|       |       |       |
|-------|-------|-------|
| ----- | ----- | ----- |
| 1085  | 23331 | 100.  |

STA. 057 56 13.4 N 156 03.4 W 26 Mar 85 2:54

DEPTH 230 SAMPLING INTERVAL 0 - 219 VOLUME FILTERED 349.8 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Calanus marshallae - adult F | 77                | 64.0        | 141          | 3085       | 24.3 |
| Pseudocalanus spp. - adult F | 28                | 64.0        | 51           | 1122       | 8.8  |
| Calanus marshallae - adult M | 25                | 64.0        | 46           | 1002       | 7.9  |
| Other Copepoda <2mm          | 24                | 64.0        | 44           | 962        | 7.6  |
| Ostracoda <5mm               | 24                | 64.0        | 44           | 962        | 7.6  |
| Neocalanus plumchrus C-2     | 20                | 64.0        | 37           | 801        | 6.3  |
| Metridia pacifica - adult F  | 14                | 64.0        | 26           | 561        | 4.4  |
| Metridia pacifica - adult M  | 12                | 64.0        | 22           | 481        | 3.8  |
| Cirripedia - nauplius <5mm   | 10                | 64.0        | 18           | 401        | 3.2  |
| Other Copepoda 2-5mm         | 10                | 64.0        | 18           | 401        | 3.2  |
| Oithona spp.                 | 26                | 21.3        | 16           | 347        | 2.7  |
| Gammaridea >5mm              | 31                | 16.0        | 14           | 311        | 2.4  |
| Neocalanus plumchrus C-3     | 7                 | 64.0        | 13           | 280        | 2.2  |
| Metridia pacifica C-4        | 6                 | 64.0        | 11           | 240        | 1.9  |
| Metridia pacifica C-5 M      | 5                 | 64.0        | 9            | 200        | 1.6  |
| Chaetognatha 5-20mm          | 17                | 16.0        | 8            | 170        | 1.3  |
| Calanus pacificus C-5        | 10                | 21.3        | 6            | 133        | 1.1  |
| Pseudocalanus spp. - adult M | 3                 | 64.0        | 5            | 120        | 0.9  |
| Gammaridea <5mm              | 3                 | 64.0        | 5            | 120        | 0.9  |
| Calanus marshallae C-5       | 2                 | 64.0        | 4            | 80         | 0.6  |
| Acartia spp.                 | 6                 | 21.3        | 4            | 80         | 0.6  |
| Chaetognatha >20mm           | 7                 | 16.0        | 3            | 70         | 0.6  |
| Euphausia pacifica A&J       | 6                 | 16.0        | 3            | 60         | 0.5  |
| Siphonophora >5mm            | 6                 | 16.0        | 3            | 60         | 0.5  |
| Neocalanus cristatus C-5     | 5                 | 16.0        | 2            | 50         | 0.4  |
| Thysanoessa inermis A&J      | 5                 | 16.0        | 2            | 50         | 0.4  |
| Eucalanus bungii C-5 F       | 5                 | 16.0        | 2            | 50         | 0.4  |
| Metriididae C-3              | 1                 | 64.0        | 2            | 40         | 0.3  |
| Hyperiididae >5mm            | 4                 | 16.0        | 2            | 40         | 0.3  |
| Cnidaria - medusa >5mm       | 4                 | 16.0        | 2            | 40         | 0.3  |
| Mysidacea >5mm               | 4                 | 16.0        | 2            | 40         | 0.3  |
| Pseudocalanus spp. C-5 F     | 1                 | 64.0        | 2            | 40         | 0.3  |
| Pseudocalanus spp. C-5 M     | 1                 | 64.0        | 2            | 40         | 0.3  |
| Metridia pacifica C-5 F      | 1                 | 64.0        | 2            | 40         | 0.3  |
| Neocalanus plumchrus C-1     | 1                 | 64.0        | 2            | 40         | 0.3  |
| Eucalanus bungii C-5 M       | 3                 | 16.0        | 1            | 30         | 0.2  |
| Eucalanus bungii C-4 F       | 2                 | 21.3        | 1            | 27         | 0.2  |
| Other Copepoda >5mm          | 2                 | 16.0        | 1            | 20         | 0.2  |
| Eucalanus bungii - adult F   | 2                 | 16.0        | 1            | 20         | 0.2  |
| Thysanoessa spinifera A&J    | 2                 | 16.0        | 1            | 20         | 0.2  |
| Eucalanus bungii - adult M   | 2                 | 16.0        | 1            | 20         | 0.2  |
| Eucalanus bungii C-4 M       | 1                 | 21.3        | 1            | 13         | 0.1  |
| Calanus pacificus - adult F  | 1                 | 21.3        | 1            | 13         | 0.1  |
| Polychaeta >5mm              | 1                 | 16.0        | < 1          | 10         | 0.1  |
|                              |                   |             | 580          | 12693      | 100. |

STA. 058 56 15.0 N 156 23.5 W 26 Mar 85 7:02

DEPTH 248 SAMPLING INTERVAL 0 - 216 VOLUME FILTERED 334.3 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Neocalanus plumchrus C-2       | 181               | 32.0        | 173          | 3742       | 16.4 |
| Pseudocalanus spp. - adult F   | 148               | 32.0        | 142          | 3060       | 13.4 |
| Other Copepoda <2mm            | 136               | 32.0        | 130          | 2812       | 12.3 |
| Oithona spp.                   | 85                | 32.0        | 81           | 1757       | 7.7  |
| Calanus marshallae - adult F   | 70                | 32.0        | 67           | 1447       | 6.3  |
| Calanus marshallae - adult M   | 43                | 32.0        | 41           | 889        | 3.9  |
| Metridia pacifica C-4          | 43                | 32.0        | 41           | 889        | 3.9  |
| Metridia pacifica - adult F    | 41                | 32.0        | 39           | 848        | 3.7  |
| Other Copepoda 2-5mm           | 36                | 32.0        | 34           | 744        | 3.3  |
| Metridia pacifica - adult M    | 34                | 32.0        | 33           | 703        | 3.1  |
| Calanus pacificus C-5          | 31                | 32.0        | 30           | 641        | 2.8  |
| Ostracoda <5mm                 | 24                | 32.0        | 23           | 496        | 2.2  |
| Metriididae C-3                | 21                | 32.0        | 20           | 434        | 1.9  |
| Invertebrata - egg <5mm        | 20                | 32.0        | 19           | 413        | 1.8  |
| Gammaridea <5mm                | 18                | 32.0        | 17           | 372        | 1.6  |
| Siphonophora <5mm              | 17                | 32.0        | 16           | 351        | 1.5  |
| Neocalanus plumchrus C-3       | 15                | 32.0        | 14           | 310        | 1.4  |
| Chaetognatha 5-20mm            | 83                | 4.0         | 10           | 214        | 0.9  |
| Metridia pacifica C-5 F        | 10                | 32.0        | 10           | 207        | 0.9  |
| Cnidaria - medusa <5mm         | 9                 | 32.0        | 9            | 186        | 0.8  |
| Hyperiididae <5mm              | 9                 | 32.0        | 9            | 186        | 0.8  |
| Neocalanus plumchrus C-1       | 8                 | 32.0        | 8            | 165        | 0.7  |
| Metridia pacifica C-5 M        | 6                 | 32.0        | 6            | 124        | 0.5  |
| Thecosomata <5mm               | 6                 | 32.0        | 6            | 124        | 0.5  |
| Gammaridea >5mm                | 41                | 4.0         | 5            | 106        | 0.5  |
| Acartia spp.                   | 5                 | 32.0        | 5            | 103        | 0.5  |
| Pseudocalanus spp. C-5 F       | 5                 | 32.0        | 5            | 103        | 0.5  |
| Siphonophora >5mm              | 38                | 4.0         | 5            | 98         | 0.4  |
| Thysanoessa inermis A&J        | 35                | 4.0         | 4            | 90         | 0.4  |
| Pseudocalanus spp. - adult M   | 4                 | 32.0        | 4            | 83         | 0.4  |
| Larvacea                       | 4                 | 32.0        | 4            | 83         | 0.4  |
| Cnidaria - medusa >5mm         | 31                | 4.0         | 4            | 80         | 0.4  |
| Eucalanus bungii C-5 F         | 25                | 4.0         | 3            | 65         | 0.3  |
| Calanus pacificus - adult M    | 3                 | 32.0        | 3            | 62         | 0.3  |
| Eucalanus bungii C-4 M         | 3                 | 32.0        | 3            | 62         | 0.3  |
| Hyperiididae >5mm              | 19                | 4.0         | 2            | 49         | 0.2  |
| Neocalanus cristatus C-3       | 2                 | 32.0        | 2            | 41         | 0.2  |
| Eucalanus bungii C-4 F         | 2                 | 32.0        | 2            | 41         | 0.2  |
| Pseudocalanus spp. C-5 M       | 2                 | 32.0        | 2            | 41         | 0.2  |
| Eucalanus bungii C-3           | 2                 | 32.0        | 2            | 41         | 0.2  |
| Neocalanus plumchrus - adult F | 2                 | 32.0        | 2            | 41         | 0.2  |
| Mysidacea <5mm                 | 2                 | 32.0        | 2            | 41         | 0.2  |
| Chaetognatha <5mm              | 2                 | 32.0        | 2            | 41         | 0.2  |
| Bryozoa - cyphonautes <5mm     | 2                 | 32.0        | 2            | 41         | 0.2  |
| Other Copepoda damaged         | 2                 | 32.0        | 2            | 41         | 0.2  |
| Calanus marshallae C-5         | 2                 | 32.0        | 2            | 41         | 0.2  |

|                             |    |      |       |       |       |
|-----------------------------|----|------|-------|-------|-------|
| Polychaeta <5mm             | 2  | 32.0 | 2     | 41    | 0.2   |
| Teleostei - egg <5mm        | 2  | 32.0 | 2     | 41    | 0.2   |
| Eucalanus bungii C-5 M      | 13 | 4.0  | 2     | 34    | 0.1   |
| Other Copepoda >5mm         | 13 | 4.0  | 2     | 34    | 0.1   |
| Eucalanus bungii - adult F  | 11 | 4.0  | 1     | 28    | 0.1   |
| Eucalanus bungii - adult M  | 10 | 4.0  | 1     | 26    | 0.1   |
| Metriididae C-2             | 1  | 32.0 | 1     | 21    | 0.1   |
| Thysanoessa spinifera A&J   | 8  | 4.0  | 1     | 21    | 0.1   |
| Euphausia pacifica A&J      | 8  | 4.0  | 1     | 21    | 0.1   |
| Calanus pacificus - adult F | 1  | 32.0 | 1     | 21    | 0.1   |
| Mysidacea >5mm              | 7  | 4.0  | 1     | 18    | 0.1   |
| Neocalanus cristatus C-5    | 4  | 4.0  | < 1   | 10    | < 0.1 |
| Teleostei - larva >5mm      | 3  | 4.0  | < 1   | 8     | < 0.1 |
| Polychaeta >5mm             | 3  | 4.0  | < 1   | 8     | < 0.1 |
| Gymnosomata >5mm            | 2  | 4.0  | < 1   | 5     | < 0.1 |
| Neocalanus cristatus C-4    | 2  | 4.0  | < 1   | 5     | < 0.1 |
| Chaetognatha >20mm          | 2  | 4.0  | < 1   | 5     | < 0.1 |
| Thysanoessa raschii A&J     | 1  | 4.0  | < 1   | 3     | < 0.1 |
| Nematoda >5mm               | 1  | 4.0  | < 1   | 3     | < 0.1 |
|                             |    |      | ----- | ----- | ----- |
|                             |    |      | 1059  | 22865 | 100.  |

STA. 059 56 16.7 N 156 39.4 W 26 Mar 85 11:18

DEPTH 150 SAMPLING INTERVAL 0 - 125 VOLUME FILTERED 123.2 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|--------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F   | 262               | 16.0        | 340          | 4255       | 38.6  |
| Neocalanus plumchrus C-2       | 94                | 16.0        | 122          | 1526       | 13.9  |
| Other Copepoda <2mm            | 68                | 16.0        | 88           | 1104       | 10.0  |
| Metridia pacifica - adult F    | 67                | 16.0        | 87           | 1088       | 9.9   |
| Metridia pacifica C-4          | 63                | 16.0        | 82           | 1023       | 9.3   |
| Metriididae C-3                | 29                | 16.0        | 38           | 471        | 4.3   |
| Metridia pacifica C-5 M        | 16                | 16.0        | 21           | 260        | 2.4   |
| Thysanoessa inermis A&J        | 57                | 4.0         | 19           | 231        | 2.1   |
| Thysanoessa spinifera A&J      | 53                | 4.0         | 17           | 215        | 2.0   |
| Calanus marshallae - adult F   | 26                | 5.3         | 11           | 140        | 1.3   |
| Metriididae C-2                | 8                 | 16.0        | 10           | 130        | 1.2   |
| Metridia pacifica C-5 F        | 6                 | 16.0        | 8            | 97         | 0.9   |
| Neocalanus plumchrus C-3       | 5                 | 16.0        | 6            | 81         | 0.7   |
| Metridia pacifica - adult M    | 3                 | 16.0        | 4            | 49         | 0.4   |
| Calanus marshallae - adult M   | 8                 | 5.3         | 3            | 43         | 0.4   |
| Calanus pacificus - adult F    | 7                 | 5.3         | 3            | 38         | 0.3   |
| Thecosomata <5mm               | 2                 | 16.0        | 3            | 32         | 0.3   |
| Ostracoda <5mm                 | 2                 | 16.0        | 3            | 32         | 0.3   |
| Chaetognatha 5-20mm            | 8                 | 4.0         | 3            | 32         | 0.3   |
| Neocalanus plumchrus C-1       | 2                 | 16.0        | 3            | 32         | 0.3   |
| Cnidaria - medusa <5mm         | 2                 | 16.0        | 3            | 32         | 0.3   |
| Pseudocalanus spp. - adult M   | 1                 | 16.0        | 1            | 16         | 0.1   |
| Neocalanus plumchrus - adult F | 1                 | 16.0        | 1            | 16         | 0.1   |
| Other Copepoda 2-5mm           | 1                 | 16.0        | 1            | 16         | 0.1   |
| Calanus pacificus C-5          | 3                 | 5.3         | 1            | 16         | 0.1   |
| Thysanoessa raschii A&J        | 3                 | 4.0         | 1            | 12         | 0.1   |
| Calanus pacificus - adult M    | 2                 | 5.3         | 1            | 11         | 0.1   |
| Calanus marshallae C-5         | 1                 | 5.3         | < 1          | 5          | < 0.1 |
| Neocalanus cristatus C-4       | 1                 | 4.0         | < 1          | 4          | < 0.1 |
| Gammaridea >5mm                | 1                 | 4.0         | < 1          | 4          | < 0.1 |
|                                |                   |             | 881          | 11015      | 100.  |

STA. 060 56 21.0 N 156 51.4 W 26 Mar 85 13:15

DEPTH 124 SAMPLING INTERVAL 0 - 95 VOLUME FILTERED 151.2 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Thysanoessa inermis A&J      | 108               | 16.0        | 114          | 1086       | 21.8 |
| Pseudocalanus spp. - adult F | 86                | 16.0        | 91           | 865        | 17.3 |
| Neocalanus plumchrus C-2     | 76                | 16.0        | 80           | 764        | 15.3 |
| Metridia pacifica - adult F  | 56                | 16.0        | 59           | 563        | 11.3 |
| Calanus marshallae - adult F | 54                | 16.0        | 57           | 543        | 10.9 |
| Metriididae C-3              | 26                | 16.0        | 28           | 261        | 5.2  |
| Other Copepoda <2mm          | 18                | 16.0        | 19           | 181        | 3.6  |
| Metridia pacifica C-4        | 15                | 16.0        | 16           | 151        | 3.0  |
| Thysanoessa spinifera A&J    | 10                | 16.0        | 11           | 101        | 2.0  |
| Neocalanus plumchrus C-1     | 6                 | 16.0        | 6            | 60         | 1.2  |
| Oithona spp.                 | 5                 | 16.0        | 5            | 50         | 1.0  |
| Calanus marshallae - adult M | 5                 | 16.0        | 5            | 50         | 1.0  |
| Metridia pacifica C-5 F      | 4                 | 16.0        | 4            | 40         | 0.8  |
| Euphausiacea A&J damaged     | 3                 | 16.0        | 3            | 30         | 0.6  |
| Neocalanus plumchrus C-3     | 3                 | 16.0        | 3            | 30         | 0.6  |
| Pseudocalanus spp. C-5 F     | 3                 | 16.0        | 3            | 30         | 0.6  |
| Cnidaria - medusa <5mm       | 3                 | 16.0        | 3            | 30         | 0.6  |
| Pseudocalanus spp. C-5 M     | 2                 | 16.0        | 2            | 20         | 0.4  |
| Cirripedia - nauplius <5mm   | 2                 | 16.0        | 2            | 20         | 0.4  |
| Chaetognatha 5-20mm          | 2                 | 16.0        | 2            | 20         | 0.4  |
| Metridia pacifica - adult M  | 1                 | 16.0        | 1            | 10         | 0.2  |
| Eucalanus bungii C-1         | 1                 | 16.0        | 1            | 10         | 0.2  |
| Siphonophora <5mm            | 1                 | 16.0        | 1            | 10         | 0.2  |
| Eucalanus bungii C-2         | 1                 | 16.0        | 1            | 10         | 0.2  |
| Metriididae C-2              | 1                 | 16.0        | 1            | 10         | 0.2  |
| Acartia spp.                 | 1                 | 16.0        | 1            | 10         | 0.2  |
| Neocalanus cristatus C-4     | 1                 | 16.0        | 1            | 10         | 0.2  |
| Euphausia pacifica A&J       | 1                 | 16.0        | 1            | 10         | 0.2  |
| Calanus pacificus - adult F  | 1                 | 16.0        | 1            | 10         | 0.2  |
|                              |                   |             | 525          | 4987       | 100. |



STA. 061 56 25.8 N 156 56.9 W 26 Mar 85 14:57

DEPTH 121 SAMPLING INTERVAL 0 - 100 VOLUME FILTERED 159.3 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-2     | 332               | 16.0        | 333          | 3335       | 31.8  |
| Pseudocalanus spp. - adult F | 180               | 16.0        | 181          | 1808       | 17.2  |
| Metridia pacifica - adult F  | 66                | 16.0        | 66           | 663        | 6.3   |
| Metriididae C-3              | 56                | 16.0        | 56           | 562        | 5.4   |
| Neocalanus plumchrus C-1     | 55                | 16.0        | 55           | 552        | 5.3   |
| Oithona spp.                 | 51                | 16.0        | 51           | 512        | 4.9   |
| Metridia pacifica C-4        | 50                | 16.0        | 50           | 502        | 4.8   |
| Cnidaria - medusa <5mm       | 46                | 16.0        | 46           | 462        | 4.4   |
| Other Copepoda <2mm          | 40                | 16.0        | 40           | 402        | 3.8   |
| Calanus marshallae - adult F | 38                | 16.0        | 38           | 382        | 3.6   |
| Thysanoessa inermis A&J      | 147               | 4.0         | 37           | 369        | 3.5   |
| Metridia pacifica C-5 F      | 12                | 16.0        | 12           | 121        | 1.1   |
| Metridia pacifica C-5 M      | 7                 | 16.0        | 7            | 70         | 0.7   |
| Neocalanus plumchrus C-3     | 7                 | 16.0        | 7            | 70         | 0.7   |
| Invertebrata - egg <5mm      | 7                 | 16.0        | 7            | 70         | 0.7   |
| Acartia spp.                 | 6                 | 16.0        | 6            | 60         | 0.6   |
| Pseudocalanus spp. C-5 F     | 6                 | 16.0        | 6            | 60         | 0.6   |
| Natantia - larva             | 6                 | 16.0        | 6            | 60         | 0.6   |
| Thecosomata <5mm             | 6                 | 16.0        | 6            | 60         | 0.6   |
| Other Copepoda 2-5mm         | 5                 | 16.0        | 5            | 50         | 0.5   |
| Thysanoessa spinifera A&J    | 17                | 4.0         | 4            | 43         | 0.4   |
| Hyperiididae <5mm            | 3                 | 16.0        | 3            | 30         | 0.3   |
| Calanus marshallae - adult M | 3                 | 16.0        | 3            | 30         | 0.3   |
| Pseudocalanus spp. C-5 M     | 2                 | 16.0        | 2            | 20         | 0.2   |
| Other Copepoda damaged       | 2                 | 16.0        | 2            | 20         | 0.2   |
| Pseudocalanus spp. - adult M | 2                 | 16.0        | 2            | 20         | 0.2   |
| Neocalanus cristatus C-2     | 2                 | 16.0        | 2            | 20         | 0.2   |
| Calanus pacificus C-5        | 2                 | 16.0        | 2            | 20         | 0.2   |
| Chaetognatha 5-20mm          | 7                 | 4.0         | 2            | 18         | 0.2   |
| Anomura - larva              | 1                 | 16.0        | 1            | 10         | 0.1   |
| Calanus pacificus - adult F  | 1                 | 16.0        | 1            | 10         | 0.1   |
| Invertebrata <5mm            | 1                 | 16.0        | 1            | 10         | 0.1   |
| Chaetognatha <5mm            | 1                 | 16.0        | 1            | 10         | 0.1   |
| Gymnosomata <5mm             | 1                 | 16.0        | 1            | 10         | 0.1   |
| Neocalanus cristatus C-3     | 1                 | 16.0        | 1            | 10         | 0.1   |
| Cirripedia - nauplius <5mm   | 1                 | 16.0        | 1            | 10         | 0.1   |
| Thysanoessa raschii A&J      | 2                 | 4.0         | 1            | 5          | < 0.1 |
| Eucalanus bungii C-5 F       | 2                 | 4.0         | 1            | 5          | < 0.1 |
| Cnidaria - medusa >5mm       | 2                 | 4.0         | 1            | 5          | < 0.1 |
| Euphausia pacifica A&J       | 1                 | 4.0         | < 1          | 3          | < 0.1 |
| Eucalanus bungii - adult M   | 1                 | 4.0         | < 1          | 3          | < 0.1 |
| Gammaridea >5mm              | 1                 | 4.0         | < 1          | 3          | < 0.1 |
| Nematoda >5mm                | 1                 | 4.0         | < 1          | 3          | < 0.1 |
| Teleostei - larva >5mm       | 1                 | 4.0         | < 1          | 3          | < 0.1 |
|                              |                   |             | 1049         | 10491      | 100.  |

STA. 063 55 19.3 N 156 47.5 W 27 Mar 85 9:37

DEPTH 105 SAMPLING INTERVAL 0 - 90 VOLUME FILTERED 134.0 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Pseudocalanus spp. - adult F | 63                | 8.0         | 38           | 339        | 39.3 |
| Cnidaria - medusa <5mm       | 14                | 8.0         | 8            | 75         | 8.7  |
| Hyperiididae <5mm            | 12                | 8.0         | 7            | 64         | 7.5  |
| Metriididae C-3              | 9                 | 8.0         | 5            | 48         | 5.6  |
| Other Copepoda <2mm          | 9                 | 8.0         | 5            | 48         | 5.6  |
| Oithona spp.                 | 45                | 1.6         | 5            | 48         | 5.6  |
| Metridia pacifica - adult F  | 9                 | 8.0         | 5            | 48         | 5.6  |
| Metriididae C-2              | 7                 | 8.0         | 4            | 38         | 4.4  |
| Calanus marshallae - adult F | 34                | 1.6         | 4            | 37         | 4.2  |
| Metridia pacifica C-4        | 4                 | 8.0         | 2            | 21         | 2.5  |
| Acartia spp.                 | 14                | 1.6         | 2            | 15         | 1.7  |
| Pseudocalanus spp. - adult M | 2                 | 8.0         | 1            | 11         | 1.2  |
| Anomura - larva              | 2                 | 8.0         | 1            | 11         | 1.2  |
| Thysanoessa spinifera A&J    | 15                | 1.0         | 1            | 10         | 1.2  |
| Calanus marshallae - adult M | 9                 | 1.6         | 1            | 10         | 1.1  |
| Metridia pacifica C-5 M      | 1                 | 8.0         | 1            | 5          | 0.6  |
| ?Pseudocalanus spp. C-2      | 1                 | 8.0         | 1            | 5          | 0.6  |
| Pseudocalanus spp. C-5 M     | 1                 | 8.0         | 1            | 5          | 0.6  |
| Other zooplankton <5mm       | 1                 | 8.0         | 1            | 5          | 0.6  |
| Thysanoessa inermis A&J      | 6                 | 1.0         | < 1          | 4          | 0.5  |
| Chaetognatha 5-20mm          | 5                 | 1.0         | < 1          | 3          | 0.4  |
| Neocalanus cristatus C-4     | 4                 | 1.0         | < 1          | 3          | 0.3  |
| Calanus pacificus C-5        | 2                 | 1.6         | < 1          | 2          | 0.2  |
| Cnidaria - medusa >5mm       | 2                 | 1.0         | < 1          | 1          | 0.2  |
| Calanus pacificus - adult F  | 1                 | 1.6         | < 1          | 1          | 0.1  |
| Euphausia pacifica A&J       | 1                 | 1.0         | < 1          | 1          | 0.1  |
| Nematoda >5mm                | 1                 | 1.0         | < 1          | 1          | 0.1  |
|                              |                   |             | 96           | 861        | 100. |

STA. 064 55 29.6 N 157 03.3 W 27 Mar 85 12:23

DEPTH 100 SAMPLING INTERVAL 0 - 80 VOLUME FILTERED 142.1 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Pseudocalanus spp. - adult F | 180               | 4.0         | 51           | 405        | 30.4 |
| Thysanoessa spinifera A&J    | 105               | 4.0         | 30           | 236        | 17.7 |
| Thysanoessa raschii A&J      | 77                | 4.0         | 22           | 173        | 13.0 |
| Neocalanus plumchrus C-2     | 58                | 4.0         | 16           | 131        | 9.8  |
| Metriididae C-3              | 47                | 4.0         | 13           | 106        | 7.9  |
| Metridia pacifica C-4        | 27                | 4.0         | 8            | 61         | 4.6  |
| Calanus marshallae - adult F | 25                | 4.0         | 7            | 56         | 4.2  |
| Cirripedia - cypris <5mm     | 16                | 4.0         | 5            | 36         | 2.7  |
| Thecosomata <5mm             | 10                | 4.0         | 3            | 23         | 1.7  |
| Other Copepoda <2mm          | 9                 | 4.0         | 3            | 20         | 1.5  |
| Metridia pacifica - adult F  | 8                 | 4.0         | 2            | 18         | 1.3  |
| Euphausia pacifica A&J       | 5                 | 4.0         | 1            | 11         | 0.8  |
| Neocalanus plumchrus C-1     | 4                 | 4.0         | 1            | 9          | 0.7  |
| Calanus pacificus - adult F  | 4                 | 4.0         | 1            | 9          | 0.7  |
| Calanus pacificus C-5        | 3                 | 4.0         | 1            | 7          | 0.5  |
| Metridia pacifica C-5 M      | 3                 | 4.0         | 1            | 7          | 0.5  |
| Anomura - larva              | 2                 | 4.0         | 1            | 5          | 0.3  |
| Oithona spp.                 | 2                 | 4.0         | 1            | 5          | 0.3  |
| Gammaridea <5mm              | 2                 | 4.0         | 1            | 5          | 0.3  |
| Euphausiacea A&J damaged     | 2                 | 4.0         | 1            | 5          | 0.3  |
| Teleostei - larva <5mm       | 2                 | 4.0         | 1            | 5          | 0.3  |
| Hyperiidia <5mm              | 1                 | 4.0         | < 1          | 2          | 0.2  |
| Pseudocalanus spp. C-5 F     | 1                 | 4.0         | < 1          | 2          | 0.2  |
|                              |                   |             | 167          | 1335       | 100. |

STA. 065 55 40.0 N 157 20.3 W 27 Mar 85 15:07

DEPTH 97 SAMPLING INTERVAL 0 - 76 VOLUME FILTERED 130.3 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Neocalanus plumchrus C-2     | 553               | 2.0         | 85           | 645        | 50.5 |
| Thysanoessa inermis A&J      | 88                | 2.0         | 14           | 103        | 8.0  |
| Thysanoessa spinifera A&J    | 67                | 2.0         | 10           | 78         | 6.1  |
| Pseudocalanus spp. - adult F | 59                | 2.0         | 9            | 69         | 5.4  |
| Neocalanus plumchrus C-1     | 37                | 2.0         | 6            | 43         | 3.4  |
| Other Copepoda <2mm          | 35                | 2.0         | 5            | 41         | 3.2  |
| Cnidaria - medusa <5mm       | 35                | 2.0         | 5            | 41         | 3.2  |
| Metriididae C-3              | 34                | 2.0         | 5            | 40         | 3.1  |
| Thecosomata <5mm             | 33                | 2.0         | 5            | 38         | 3.0  |
| Oithona spp.                 | 23                | 2.0         | 4            | 27         | 2.1  |
| Metridia pacifica C-4        | 19                | 2.0         | 3            | 22         | 1.7  |
| Euphausia pacifica A&J       | 19                | 2.0         | 3            | 22         | 1.7  |
| Neocalanus plumchrus C-3     | 15                | 2.0         | 2            | 17         | 1.4  |
| Calanus marshallae - adult F | 14                | 2.0         | 2            | 16         | 1.3  |
| Hyperiididae <5mm            | 8                 | 2.0         | 1            | 9          | 0.7  |
| Acartia spp.                 | 6                 | 2.0         | 1            | 7          | 0.5  |
| Neocalanus cristatus C-3     | 6                 | 2.0         | 1            | 7          | 0.5  |
| Calanus pacificus - adult F  | 5                 | 2.0         | 1            | 6          | 0.5  |
| Anomura - larva              | 5                 | 2.0         | 1            | 6          | 0.5  |
| Metridia pacifica C-5 M      | 5                 | 2.0         | 1            | 6          | 0.5  |
| Chaetognatha 5-20mm          | 4                 | 2.0         | 1            | 5          | 0.4  |
| Pseudocalanus spp. C-5 F     | 4                 | 2.0         | 1            | 5          | 0.4  |
| Pseudocalanus spp. C-5 M     | 2                 | 2.0         | < 1          | 2          | 0.2  |
| Metridia pacifica C-5 F      | 2                 | 2.0         | < 1          | 2          | 0.2  |
| Metridia pacifica - adult F  | 2                 | 2.0         | < 1          | 2          | 0.2  |
| Gastropoda - veliger <5mm    | 2                 | 2.0         | < 1          | 2          | 0.2  |
| Euphausiacea A&J damaged     | 2                 | 2.0         | < 1          | 2          | 0.2  |
| Neocalanus cristatus C-4     | 1                 | 2.0         | < 1          | 1          | 0.1  |
| Gammaridea <5mm              | 1                 | 2.0         | < 1          | 1          | 0.1  |
| Hyperiididae >5mm            | 1                 | 2.0         | < 1          | 1          | 0.1  |
| Siphonophora >5mm            | 1                 | 2.0         | < 1          | 1          | 0.1  |
| Pseudocalanus spp. C-4 F     | 1                 | 2.0         | < 1          | 1          | 0.1  |
| Other Copepoda 2-5mm         | 1                 | 2.0         | < 1          | 1          | 0.1  |
| Metridia pacifica - adult M  | 1                 | 2.0         | < 1          | 1          | 0.1  |
| Cirripedia - cypris <5mm     | 1                 | 2.0         | < 1          | 1          | 0.1  |
| Eucalanus bungii C-5 M       | 1                 | 2.0         | < 1          | 1          | 0.1  |
| Neocalanus cristatus C-2     | 1                 | 2.0         | < 1          | 1          | 0.1  |
|                              |                   |             | 168          | 1276       | 100. |

STA. 066 55 49.4 N 157 35.5 W 27 Mar 85 17:58

DEPTH 110 SAMPLING INTERVAL 0 - 67 VOLUME FILTERED 112.3 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Neocalanus plumchrus C-2     | 95                | 4.0         | 34           | 227        | 34.4 |
| Neocalanus plumchrus C-1     | 67                | 4.0         | 24           | 160        | 24.3 |
| Cnidaria - medusa <5mm       | 34                | 4.0         | 12           | 81         | 12.3 |
| Oithona spp.                 | 19                | 4.0         | 7            | 45         | 6.9  |
| Pseudocalanus spp. - adult F | 61                | 1.0         | 5            | 36         | 5.5  |
| Other Copepoda <2mm          | 15                | 4.0         | 5            | 36         | 5.4  |
| Cirripectida - nauplius <5mm | 5                 | 4.0         | 2            | 12         | 1.8  |
| Anomura - larva              | 3                 | 4.0         | 1            | 7          | 1.1  |
| Acartia spp.                 | 12                | 1.0         | 1            | 7          | 1.1  |
| Metridia pacifica C-4        | 11                | 1.0         | 1            | 7          | 1.0  |
| Neocalanus cristatus C-3     | 2                 | 4.0         | 1            | 5          | 0.7  |
| Natantia - larva             | 2                 | 4.0         | 1            | 5          | 0.7  |
| Neocalanus cristatus C-2     | 2                 | 4.0         | 1            | 5          | 0.7  |
| Thecosomata <5mm             | 2                 | 4.0         | 1            | 5          | 0.7  |
| Pseudocalanus spp. C-5 F     | 4                 | 1.0         | < 1          | 2          | 0.4  |
| Pseudocalanus spp. C-5 M     | 4                 | 1.0         | < 1          | 2          | 0.4  |
| Chaetognatha 5-20mm          | 4                 | 1.0         | < 1          | 2          | 0.4  |
| Gammaridea <5mm              | 1                 | 4.0         | < 1          | 2          | 0.4  |
| Hyperiidia <5mm              | 1                 | 4.0         | < 1          | 2          | 0.4  |
| Calanus pacificus C-5        | 3                 | 1.0         | < 1          | 2          | 0.3  |
| Metridia pacifica - adult F  | 2                 | 1.0         | < 1          | 1          | 0.2  |
| Hyperiidia >5mm              | 2                 | 1.0         | < 1          | 1          | 0.2  |
| Calanus pacificus - adult F  | 1                 | 1.0         | < 1          | 1          | 0.1  |
| Thysanoessa inspinata A&J    | 1                 | 1.0         | < 1          | 1          | 0.1  |
| Euphausiacea - furcilia      | 1                 | 1.0         | < 1          | 1          | 0.1  |
| Euphausia pacifica A&J       | 1                 | 1.0         | < 1          | 1          | 0.1  |
| Metridia pacifica C-5 F      | 1                 | 1.0         | < 1          | 1          | 0.1  |
| Metridia pacifica C-5 M      | 1                 | 1.0         | < 1          | 1          | 0.1  |
| Pseudocalanus spp. C-4 F     | 1                 | 1.0         | < 1          | 1          | 0.1  |
| Calanus marshallae - adult F | 1                 | 1.0         | < 1          | 1          | 0.1  |
| Gymnosomata >5mm             | 1                 | 1.0         | < 1          | 1          | 0.1  |
|                              |                   |             | 98           | 658        | 100. |

STA. 067 55 59.6 N 157 51.5 W 27 Mar 85 20:18  
 DEPTH 111 SAMPLING INTERVAL 0 - 77 VOLUME FILTERED 122.2 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Neocalanus plumchrus C-2     | 213               | 1.0         | 17           | 134        | 47.5 |
| Neocalanus plumchrus C-1     | 42                | 1.0         | 3            | 26         | 9.4  |
| Oithona spp.                 | 36                | 1.0         | 3            | 23         | 8.0  |
| Cnidaria - medusa <5mm       | 36                | 1.0         | 3            | 23         | 8.0  |
| Neocalanus plumchrus C-3     | 17                | 1.0         | 1            | 11         | 3.8  |
| Anomura - larva              | 17                | 1.0         | 1            | 11         | 3.8  |
| Pseudocalanus spp. - adult F | 16                | 1.0         | 1            | 10         | 3.6  |
| Other Copepoda <2mm          | 11                | 1.0         | 1            | 7          | 2.5  |
| Acartia spp.                 | 11                | 1.0         | 1            | 7          | 2.5  |
| Cirripedia - nauplius <5mm   | 6                 | 1.0         | < 1          | 4          | 1.3  |
| Pseudocalanus spp. C-5 M     | 6                 | 1.0         | < 1          | 4          | 1.3  |
| Natantia - larva             | 5                 | 1.0         | < 1          | 3          | 1.1  |
| Calanus marshallae - adult F | 5                 | 1.0         | < 1          | 3          | 1.1  |
| Pseudocalanus spp. C-5 F     | 3                 | 1.0         | < 1          | 2          | 0.7  |
| Chaetognatha 5-20mm          | 2                 | 1.0         | < 1          | 1          | 0.4  |
| Thecosomata <5mm             | 2                 | 1.0         | < 1          | 1          | 0.4  |
| Pseudocalanus spp. C-4 M     | 2                 | 1.0         | < 1          | 1          | 0.4  |
| Metridia pacifica C-5 F      | 2                 | 1.0         | < 1          | 1          | 0.4  |
| Chaetognatha >20mm           | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Thysanoessa spinifera A&J    | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Eucalanus bungii C-3         | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Metridia pacifica - adult F  | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Calanus marshallae - adult M | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Gammaridea >5mm              | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Neocalanus plumchrus C-4     | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Metriididae C-3              | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Metriididae C-2              | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Calanus pacificus C-5        | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Metridia pacifica C-4        | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Pseudocalanus spp. - adult M | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Hyperiididae >5mm            | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Metridia pacifica C-5 M      | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Eucalanus bungii C-5 M       | 1                 | 1.0         | < 1          | 1          | 0.2  |
| Hyperiididae <5mm            | 1                 | 1.0         | < 1          | 1          | 0.2  |
|                              |                   |             | 37           | 282        | 100. |

STA. 068 56 04.3 N 157 59.4 W 27 Mar 85 21:43

DEPTH 125 SAMPLING INTERVAL 0 - 103 VOLUME FILTERED 143.6 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-2     | 168               | 16.0        | 187          | 1928       | 36.7  |
| Oithona spp.                 | 51                | 16.0        | 57           | 585        | 11.1  |
| Cnidaria - medusa <5mm       | 41                | 16.0        | 46           | 471        | 9.0   |
| Metriididae C-3              | 38                | 16.0        | 42           | 436        | 8.3   |
| Cirripedia - nauplius <5mm   | 33                | 16.0        | 37           | 379        | 7.2   |
| Pseudocalanus spp. - adult F | 26                | 16.0        | 29           | 298        | 5.7   |
| Neocalanus plumchrus C-1     | 25                | 16.0        | 28           | 287        | 5.5   |
| Anomura - larva              | 14                | 16.0        | 16           | 161        | 3.1   |
| Other Copepoda <2mm          | 14                | 16.0        | 16           | 161        | 3.1   |
| Natantia - larva             | 13                | 16.0        | 14           | 149        | 2.8   |
| Thecosomata <5mm             | 6                 | 16.0        | 7            | 69         | 1.3   |
| Pseudocalanus spp. C-5 M     | 4                 | 16.0        | 4            | 46         | 0.9   |
| Neocalanus plumchrus C-3     | 4                 | 16.0        | 4            | 46         | 0.9   |
| Pseudocalanus spp. C-5 F     | 3                 | 16.0        | 3            | 34         | 0.7   |
| Pseudocalanus spp. C-4 F     | 2                 | 16.0        | 2            | 23         | 0.4   |
| Ostracoda <5mm               | 2                 | 16.0        | 2            | 23         | 0.4   |
| Acartia spp.                 | 2                 | 16.0        | 2            | 23         | 0.4   |
| Calanus marshallae - adult F | 17                | 1.8         | 2            | 22         | 0.4   |
| Chaetognatha 5-20mm          | 28                | 1.0         | 2            | 20         | 0.4   |
| Cnidaria - medusa >5mm       | 21                | 1.0         | 1            | 15         | 0.3   |
| Metridia pacifica C-4        | 9                 | 1.8         | 1            | 12         | 0.2   |
| Brachyura - larva            | 1                 | 16.0        | 1            | 11         | 0.2   |
| Siphonophora <5mm            | 1                 | 16.0        | 1            | 11         | 0.2   |
| Gastropoda - veliger <5mm    | 1                 | 16.0        | 1            | 11         | 0.2   |
| Pseudocalanus spp. - adult M | 1                 | 16.0        | 1            | 11         | 0.2   |
| Metridia pacifica C-5 M      | 4                 | 1.8         | 1            | 5          | 0.1   |
| Thysanoessa inermis A&J      | 7                 | 1.0         | < 1          | 5          | 0.1   |
| Calanus pacificus C-5        | 3                 | 1.8         | < 1          | 4          | 0.1   |
| Calanus marshallae - adult M | 2                 | 1.8         | < 1          | 3          | < 0.1 |
| Metridia pacifica - adult F  | 2                 | 1.8         | < 1          | 3          | < 0.1 |
| Eucalanus bungii C-5 M       | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Eucalanus bungii C-5 F       | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Eucalanus bungii - adult M   | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Hyperiidia >5mm              | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                              |                   |             | 510          | 5257       | 100.  |

Appendix 2. Abundance of zooplankton taxa at each station sampled during FOX85-II, cruise 1MF85 in Shelikof Strait, 1-12 April 1985.



STA. H061A      57 42.1 N      155 13.0 W      06 Apr 85      6:22

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
298                              0 - 272                              375.2                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Teleostei - egg <5mm         | 208               | 128.0       | 710          | 19303      | 22.1  |
| Neocalanus plumchrus C-3     | 169               | 128.0       | 577          | 15684      | 18.0  |
| Neocalanus plumchrus C-2     | 70                | 128.0       | 239          | 6496       | 7.4   |
| Invertebrata - egg <5mm      | 59                | 128.0       | 201          | 5475       | 6.3   |
| Neocalanus plumchrus C-4     | 54                | 128.0       | 184          | 5011       | 5.7   |
| Metridia pacifica C-5 F      | 42                | 128.0       | 143          | 3898       | 4.5   |
| Ostracoda <5mm               | 39                | 128.0       | 133          | 3619       | 4.2   |
| Calanus pacificus C-5        | 35                | 128.0       | 119          | 3248       | 3.7   |
| Metridia pacifica C-5 M      | 30                | 128.0       | 102          | 2784       | 3.2   |
| Pseudocalanus spp. - adult F | 30                | 128.0       | 102          | 2784       | 3.2   |
| Other Copepoda <2mm          | 30                | 128.0       | 102          | 2784       | 3.2   |
| Metridia pacifica C-4        | 23                | 128.0       | 78           | 2134       | 2.4   |
| Metriididae C-3              | 22                | 128.0       | 75           | 2042       | 2.3   |
| Metridia pacifica - adult M  | 15                | 128.0       | 51           | 1392       | 1.6   |
| Metridia pacifica - adult F  | 11                | 128.0       | 38           | 1021       | 1.2   |
| Pseudocalanus spp. - adult M | 10                | 128.0       | 34           | 928        | 1.1   |
| Neocalanus cristatus C-3     | 9                 | 128.0       | 31           | 835        | 1.0   |
| Pseudocalanus spp. C-5 M     | 8                 | 128.0       | 27           | 742        | 0.9   |
| Pseudocalanus spp. C-5 F     | 8                 | 128.0       | 27           | 742        | 0.9   |
| Other Copepoda 2-5mm         | 7                 | 128.0       | 24           | 650        | 0.7   |
| Thecosomata <5mm             | 6                 | 128.0       | 20           | 557        | 0.6   |
| Neocalanus plumchrus C-1     | 6                 | 128.0       | 20           | 557        | 0.6   |
| Oithona spp.                 | 5                 | 128.0       | 17           | 464        | 0.5   |
| Other Copepoda damaged       | 4                 | 128.0       | 14           | 371        | 0.4   |
| Chaetognatha <5mm            | 4                 | 128.0       | 14           | 371        | 0.4   |
| Larvacea                     | 4                 | 128.0       | 14           | 371        | 0.4   |
| Neocalanus cristatus C-4     | 53                | 8.0         | 11           | 307        | 0.4   |
| Cnidaria - medusa <5mm       | 3                 | 128.0       | 10           | 278        | 0.3   |
| Gammaridea <5mm              | 3                 | 128.0       | 10           | 278        | 0.3   |
| Siphonophora <5mm            | 3                 | 128.0       | 10           | 278        | 0.3   |
| Mysidacea <5mm               | 3                 | 128.0       | 10           | 278        | 0.3   |
| Acartia spp.                 | 2                 | 128.0       | 7            | 186        | 0.2   |
| Calanus marshallae - adult F | 2                 | 128.0       | 7            | 186        | 0.2   |
| Euphausiacea - nauplius      | 2                 | 128.0       | 7            | 186        | 0.2   |
| Chaetognatha 5-20mm          | 25                | 8.0         | 5            | 145        | 0.2   |
| Thysanoessa inermis A&J      | 21                | 8.0         | 4            | 122        | 0.1   |
| Neocalanus cristatus C-5     | 19                | 8.0         | 4            | 110        | 0.1   |
| Bryozoa - cyphonautes <5mm   | 1                 | 128.0       | 3            | 93         | 0.1   |
| Natantia - larva             | 1                 | 128.0       | 3            | 93         | 0.1   |
| Teleostei - larva <5mm       | 1                 | 128.0       | 3            | 93         | 0.1   |
| Calanus marshallae - adult M | 1                 | 128.0       | 3            | 93         | 0.1   |
| Cnidaria - medusa >5mm       | 11                | 8.0         | 2            | 64         | 0.1   |
| Gammaridea >5mm              | 4                 | 8.0         | 1            | 23         | < 0.1 |
| Chaetognatha >20mm           | 4                 | 8.0         | 1            | 23         | < 0.1 |
| Other Copepoda >5mm          | 3                 | 8.0         | 1            | 17         | < 0.1 |
| Teleostei - larva >5mm       | 3                 | 8.0         | 1            | 17         | < 0.1 |

|                            |   |     |       |       |       |
|----------------------------|---|-----|-------|-------|-------|
| Mysidacea >5mm             | 2 | 8.0 | < 1   | 12    | < 0.1 |
| Siphonophora >5mm          | 2 | 8.0 | < 1   | 12    | < 0.1 |
| Invertebrata >5mm          | 1 | 8.0 | < 1   | 6     | < 0.1 |
| Thysanoessa spinifera A&J  | 1 | 8.0 | < 1   | 6     | < 0.1 |
| Eucalanus bungii C-5 F     | 1 | 8.0 | < 1   | 6     | < 0.1 |
| Eucalanus bungii - adult M | 1 | 8.0 | < 1   | 6     | < 0.1 |
| Hyperiididea >5mm          | 1 | 8.0 | < 1   | 6     | < 0.1 |
| Eucalanus bungii C-5 M     | 1 | 8.0 | < 1   | 6     | < 0.1 |
| Nematoda >5mm              | 1 | 8.0 | < 1   | 6     | < 0.1 |
|                            |   |     | ----- | ----- | ----- |
|                            |   |     | 3206  | 87199 | 100.  |

STA. H060A 57 40.9 N 155 08.0 W 06 Apr 85 10:10

DEPTH 294 SAMPLING INTERVAL 0 - 267 VOLUME FILTERED 323.4 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Teleostei - egg <5mm         | 123               | 128.0       | 487          | 12999      | 18.0  |
| Neocalanus plumchrus C-3     | 90                | 128.0       | 356          | 9511       | 13.2  |
| Metridia pacifica C-5 F      | 56                | 128.0       | 222          | 5918       | 8.2   |
| Neocalanus plumchrus C-2     | 54                | 128.0       | 214          | 5707       | 7.9   |
| Ostracoda <5mm               | 48                | 128.0       | 190          | 5073       | 7.0   |
| Metridia pacifica C-4        | 43                | 128.0       | 170          | 4544       | 6.3   |
| Metriididae C-3              | 32                | 128.0       | 127          | 3382       | 4.7   |
| Metridia pacifica C-5 M      | 28                | 128.0       | 111          | 2959       | 4.1   |
| Neocalanus plumchrus C-4     | 25                | 128.0       | 99           | 2642       | 3.7   |
| Other Copepoda <2mm          | 23                | 128.0       | 91           | 2431       | 3.4   |
| Invertebrata - egg <5mm      | 21                | 128.0       | 83           | 2219       | 3.1   |
| Calanus pacificus C-5        | 20                | 128.0       | 79           | 2114       | 2.9   |
| Pseudocalanus spp. - adult F | 18                | 128.0       | 71           | 1902       | 2.6   |
| Pseudocalanus spp. C-5 M     | 15                | 128.0       | 59           | 1585       | 2.2   |
| Metridia pacifica - adult F  | 12                | 128.0       | 47           | 1268       | 1.8   |
| Other Copepoda damaged       | 10                | 128.0       | 40           | 1057       | 1.5   |
| Other Copepoda 2-5mm         | 9                 | 128.0       | 36           | 951        | 1.3   |
| Metridia pacifica - adult M  | 7                 | 128.0       | 28           | 740        | 1.0   |
| Larvacea                     | 7                 | 128.0       | 28           | 740        | 1.0   |
| Thecosomata <5mm             | 6                 | 128.0       | 24           | 634        | 0.9   |
| Pseudocalanus spp. C-5 F     | 6                 | 128.0       | 24           | 634        | 0.9   |
| Neocalanus plumchrus C-1     | 4                 | 128.0       | 16           | 423        | 0.6   |
| Pseudocalanus spp. - adult M | 4                 | 128.0       | 16           | 423        | 0.6   |
| Chaetognatha 5-20mm          | 37                | 8.0         | 9            | 244        | 0.3   |
| Neocalanus cristatus C-4     | 36                | 8.0         | 9            | 238        | 0.3   |
| Oithona spp.                 | 2                 | 128.0       | 8            | 211        | 0.3   |
| Mysidacea <5mm               | 2                 | 128.0       | 8            | 211        | 0.3   |
| Chaetognatha <5mm            | 2                 | 128.0       | 8            | 211        | 0.3   |
| Neocalanus cristatus C-5     | 20                | 8.0         | 5            | 132        | 0.2   |
| Gammaridea <5mm              | 1                 | 128.0       | 4            | 106        | 0.1   |
| Acartia spp.                 | 1                 | 128.0       | 4            | 106        | 0.1   |
| Calanus marshallae - adult F | 1                 | 128.0       | 4            | 106        | 0.1   |
| Pseudocalanus spp. C-4 F     | 1                 | 128.0       | 4            | 106        | 0.1   |
| Eucalanus bungii C-4 F       | 1                 | 128.0       | 4            | 106        | 0.1   |
| Calanus marshallae C-5       | 1                 | 128.0       | 4            | 106        | 0.1   |
| Mysidacea >5mm               | 15                | 8.0         | 4            | 99         | 0.1   |
| Gammaridea >5mm              | 12                | 8.0         | 3            | 79         | 0.1   |
| Cnidaria - medusa >5mm       | 12                | 8.0         | 3            | 79         | 0.1   |
| Chaetognatha >20mm           | 9                 | 8.0         | 2            | 59         | 0.1   |
| Siphonophora >5mm            | 9                 | 8.0         | 2            | 59         | 0.1   |
| Thysanoessa inermis A&J      | 9                 | 8.0         | 2            | 59         | 0.1   |
| Other Copepoda >5mm          | 4                 | 8.0         | 1            | 26         | < 0.1 |
| Thysanoessa spinifera A&J    | 4                 | 8.0         | 1            | 26         | < 0.1 |
| Nematoda >5mm                | 3                 | 8.0         | 1            | 20         | < 0.1 |
| Eucalanus bungii - adult F   | 3                 | 8.0         | 1            | 20         | < 0.1 |
| Eucalanus bungii C-5 F       | 3                 | 8.0         | 1            | 20         | < 0.1 |

|                            |   |       |       |       |       |
|----------------------------|---|-------|-------|-------|-------|
| Hyperiididea >5mm          | 2 | 8.0   | < 1   | 13    | < 0.1 |
| Polychaeta >5mm            | 1 | 8.0   | < 1   | 7     | < 0.1 |
| Eucalanus bungii - adult M | 1 | 8.0   | < 1   | 7     | < 0.1 |
| Teleostei - larva >5mm     | 1 | 8.0   | < 1   | 7     | < 0.1 |
|                            |   | ----- | ----- | ----- | ----- |
|                            |   | 2709  | 72319 | 100.  |       |

STA. H058A      57 35.9 N      155 01.0 W      06 Apr 85      15:34

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
243                      0 - 244                  320.1                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Teleostei - egg <5mm         | 212               | 128.0       | 848          | 20688      | 30.1  |
| Invertebrata - egg <5mm      | 89                | 128.0       | 356          | 8685       | 12.6  |
| Calanus pacificus C-5        | 56                | 128.0       | 224          | 5465       | 7.9   |
| Ostracoda <5mm               | 51                | 128.0       | 204          | 4977       | 7.2   |
| Neocalanus plumchrus C-3     | 38                | 128.0       | 152          | 3708       | 5.4   |
| Metridia pacifica C-4        | 36                | 128.0       | 144          | 3513       | 5.1   |
| Other Copepoda <2mm          | 27                | 128.0       | 108          | 2635       | 3.8   |
| Metridia pacifica - adult M  | 26                | 128.0       | 104          | 2537       | 3.7   |
| Metridia pacifica C-5 M      | 23                | 128.0       | 92           | 2244       | 3.3   |
| Metridia pacifica C-5 F      | 22                | 128.0       | 88           | 2147       | 3.1   |
| Neocalanus plumchrus C-4     | 17                | 128.0       | 68           | 1659       | 2.4   |
| Metriididae C-3              | 16                | 128.0       | 64           | 1561       | 2.3   |
| Pseudocalanus spp. - adult F | 16                | 128.0       | 64           | 1561       | 2.3   |
| Neocalanus plumchrus C-2     | 12                | 128.0       | 48           | 1171       | 1.7   |
| Other Copepoda 2-5mm         | 7                 | 128.0       | 28           | 683        | 1.0   |
| Thecosomata <5mm             | 7                 | 128.0       | 28           | 683        | 1.0   |
| Other Copepoda damaged       | 6                 | 128.0       | 24           | 585        | 0.9   |
| Oithona spp.                 | 5                 | 128.0       | 20           | 488        | 0.7   |
| Metridia pacifica - adult F  | 5                 | 128.0       | 20           | 488        | 0.7   |
| Larvacea                     | 5                 | 128.0       | 20           | 488        | 0.7   |
| Mysidacea <5mm               | 4                 | 128.0       | 16           | 390        | 0.6   |
| Pseudocalanus spp. - adult M | 3                 | 128.0       | 12           | 293        | 0.4   |
| Cnidaria - medusa <5mm       | 2                 | 128.0       | 8            | 195        | 0.3   |
| Anomura - larva              | 2                 | 128.0       | 8            | 195        | 0.3   |
| Siphonophora <5mm            | 2                 | 128.0       | 8            | 195        | 0.3   |
| Pseudocalanus spp. C-5 M     | 2                 | 128.0       | 8            | 195        | 0.3   |
| Neocalanus cristatus C-4     | 45                | 5.3         | 7            | 182        | 0.3   |
| Neocalanus cristatus C-5     | 41                | 5.3         | 7            | 166        | 0.2   |
| Chaetognatha 5-20mm          | 40                | 5.3         | 7            | 162        | 0.2   |
| Gammaridea <5mm              | 1                 | 128.0       | 4            | 98         | 0.1   |
| Chaetognatha <5mm            | 1                 | 128.0       | 4            | 98         | 0.1   |
| Neocalanus plumchrus C-1     | 1                 | 128.0       | 4            | 98         | 0.1   |
| Hyperiididae <5mm            | 1                 | 128.0       | 4            | 98         | 0.1   |
| Gymnosomata <5mm             | 1                 | 128.0       | 4            | 98         | 0.1   |
| Gammaridea >5mm              | 13                | 5.3         | 2            | 53         | 0.1   |
| Cnidaria - medusa >5mm       | 12                | 5.3         | 2            | 48         | 0.1   |
| Chaetognatha >20mm           | 11                | 5.3         | 2            | 44         | 0.1   |
| Mysidacea >5mm               | 8                 | 5.3         | 1            | 32         | < 0.1 |
| Eucalanus bungii - adult F   | 7                 | 5.3         | 1            | 28         | < 0.1 |
| Other Copepoda >5mm          | 5                 | 5.3         | 1            | 20         | < 0.1 |
| Eucalanus bungii - adult M   | 5                 | 5.3         | 1            | 20         | < 0.1 |
| Siphonophora >5mm            | 4                 | 5.3         | 1            | 16         | < 0.1 |
| Eucalanus bungii C-5 M       | 3                 | 5.3         | < 1          | 12         | < 0.1 |
| Polychaeta >5mm              | 3                 | 5.3         | < 1          | 12         | < 0.1 |
| Hyperiididae >5mm            | 3                 | 5.3         | < 1          | 12         | < 0.1 |
| Thysanoessa inermis A&J      | 2                 | 5.3         | < 1          | 8          | < 0.1 |

|                           |   |     |       |       |       |
|---------------------------|---|-----|-------|-------|-------|
| Teleostei - larva >5mm    | 2 | 5.3 | < 1   | 8     | < 0.1 |
| Thysanoessa inspinata A&J | 1 | 5.3 | < 1   | 4     | < 0.1 |
| Euphausia pacifica A&J    | 1 | 5.3 | < 1   | 4     | < 0.1 |
| Nematoda >5mm             | 1 | 5.3 | < 1   | 4     | < 0.1 |
| Thysanoessa longipes A&J  | 1 | 5.3 | < 1   | 4     | < 0.1 |
|                           |   |     | ----- | ----- | ----- |
|                           |   |     | 2818  | 68758 | 100.  |

STA. H056A      57 31.2 N      154 47.0 W      06 Apr 85      19:21

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
208                      0 - 176                  244.4                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Other Copepoda <2mm          | 59                | 256.0       | 618          | 10878      | 14.4 |
| Metridia pacifica C-4        | 57                | 256.0       | 597          | 10510      | 13.9 |
| Metridia pacifica C-5 M      | 45                | 256.0       | 471          | 8297       | 11.0 |
| Metridia pacifica C-5 F      | 38                | 256.0       | 398          | 7006       | 9.3  |
| Pseudocalanus spp. - adult F | 32                | 256.0       | 335          | 5900       | 7.8  |
| Neocalanus plumchrus C-3     | 30                | 256.0       | 314          | 5531       | 7.3  |
| Neocalanus plumchrus C-4     | 46                | 128.0       | 241          | 4241       | 5.6  |
| Calanus marshallae - adult F | 25                | 128.0       | 131          | 2305       | 3.1  |
| Neocalanus plumchrus C-2     | 24                | 128.0       | 126          | 2213       | 2.9  |
| Calanus pacificus C-5        | 23                | 128.0       | 120          | 2120       | 2.8  |
| Oithona spp.                 | 20                | 128.0       | 105          | 1844       | 2.4  |
| Neocalanus cristatus C-3     | 9                 | 256.0       | 94           | 1659       | 2.2  |
| Invertebrata - egg <5mm      | 18                | 128.0       | 94           | 1659       | 2.2  |
| Metridia pacifica - adult M  | 10                | 128.0       | 52           | 922        | 1.2  |
| Pseudocalanus spp. - adult M | 5                 | 256.0       | 52           | 922        | 1.2  |
| Teleostei - egg <5mm         | 9                 | 128.0       | 47           | 830        | 1.1  |
| Metridia pacifica - adult F  | 9                 | 128.0       | 47           | 830        | 1.1  |
| Siphonophora <5mm            | 8                 | 128.0       | 42           | 738        | 1.0  |
| Other Copepoda damaged       | 4                 | 256.0       | 42           | 738        | 1.0  |
| Metriididae C-3              | 7                 | 128.0       | 37           | 645        | 0.9  |
| Ostracoda <5mm               | 7                 | 128.0       | 37           | 645        | 0.9  |
| Chaetognatha 5-20mm          | 35                | 16.0        | 23           | 403        | 0.5  |
| Larvacea                     | 4                 | 128.0       | 21           | 369        | 0.5  |
| Other Copepoda 2-5mm         | 2                 | 256.0       | 21           | 369        | 0.5  |
| Calanus marshallae - adult M | 4                 | 128.0       | 21           | 369        | 0.5  |
| Thecosomata <5mm             | 4                 | 128.0       | 21           | 369        | 0.5  |
| Pseudocalanus spp. C-5 M     | 3                 | 128.0       | 16           | 277        | 0.4  |
| Neocalanus plumchrus C-1     | 3                 | 128.0       | 16           | 277        | 0.4  |
| Mysidacea <5mm               | 3                 | 128.0       | 16           | 277        | 0.4  |
| Acartia spp.                 | 3                 | 128.0       | 16           | 277        | 0.4  |
| Neocalanus cristatus C-4     | 57                | 5.3         | 12           | 218        | 0.3  |
| Natantia - larva             | 2                 | 128.0       | 10           | 184        | 0.2  |
| Other zooplankton <5mm       | 2                 | 128.0       | 10           | 184        | 0.2  |
| Chaetognatha >20mm           | 9                 | 16.0        | 6            | 104        | 0.1  |
| Pseudocalanus spp. C-4 M     | 1                 | 128.0       | 5            | 92         | 0.1  |
| Eucalanus bungii C-4 M       | 1                 | 128.0       | 5            | 92         | 0.1  |
| Eucalanus bungii C-4 F       | 1                 | 128.0       | 5            | 92         | 0.1  |
| Cnidaria - medusa <5mm       | 1                 | 128.0       | 5            | 92         | 0.1  |
| Gammaridea <5mm              | 1                 | 128.0       | 5            | 92         | 0.1  |
| Hyperiidia <5mm              | 1                 | 128.0       | 5            | 92         | 0.1  |
| Calanus pacificus - adult F  | 1                 | 128.0       | 5            | 92         | 0.1  |
| Pseudocalanus spp. C-4 F     | 1                 | 128.0       | 5            | 92         | 0.1  |
| Anomura - larva              | 1                 | 128.0       | 5            | 92         | 0.1  |
| Pseudocalanus spp. C-5 F     | 1                 | 128.0       | 5            | 92         | 0.1  |
| Eucalanus bungii - adult F   | 16                | 5.3         | 3            | 61         | 0.1  |
| Siphonophora >5mm            | 14                | 5.3         | 3            | 53         | 0.1  |

|                            |    |     |       |       |       |
|----------------------------|----|-----|-------|-------|-------|
| Cnidaria - medusa >5mm     | 12 | 5.3 | 3     | 46    | 0.1   |
| Eucalanus bungii - adult M | 10 | 5.3 | 2     | 38    | 0.1   |
| Eucalanus bungii C-5 F     | 9  | 5.3 | 2     | 34    | < 0.1 |
| Neocalanus cristatus C-5   | 7  | 5.3 | 2     | 27    | < 0.1 |
| Euphausia pacifica A&J     | 6  | 5.3 | 1     | 23    | < 0.1 |
| Eucalanus bungii C-5 M     | 5  | 5.3 | 1     | 19    | < 0.1 |
| Thysanoessa spinifera A&J  | 4  | 5.3 | 1     | 15    | < 0.1 |
| Thysanoessa inermis A&J    | 4  | 5.3 | 1     | 15    | < 0.1 |
| Teleostei - larva >5mm     | 2  | 5.3 | < 1   | 8     | < 0.1 |
| Polychaeta >5mm            | 2  | 5.3 | < 1   | 8     | < 0.1 |
| Euphausiacea A&J damaged   | 1  | 5.3 | < 1   | 4     | < 0.1 |
| Mysidacea >5mm             | 1  | 5.3 | < 1   | 4     | < 0.1 |
| Other Copepoda >5mm        | 1  | 5.3 | < 1   | 4     | < 0.1 |
| Gymnosomata >5mm           | 1  | 5.3 | < 1   | 4     | < 0.1 |
|                            |    |     | ----- | ----- | ----- |
|                            |    |     | 4284  | 75393 | 100.  |



Appendix 3. Abundance of zooplankton taxa at each station  
sampled during FOX85-III, cruise 2MF85 in Shelikof  
Strait, 1-12 May 1985.

STA. G001A      57 29.4 N      154 42.0 W      02 May 85      18:44

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
69                      0 - 60                  93.4                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Pseudocalanus spp. - adult F | 244               | 16.0        | 418          | 2509       | 17.5 |
| Neocalanus plumchrus C-4     | 199               | 16.0        | 341          | 2046       | 14.3 |
| Neocalanus plumchrus C-5     | 180               | 16.0        | 309          | 1851       | 12.9 |
| Metridia pacifica C-4        | 76                | 16.0        | 130          | 782        | 5.4  |
| Pseudocalanus spp. C-5 F     | 74                | 16.0        | 127          | 761        | 5.3  |
| Pseudocalanus spp. C-5 M     | 70                | 16.0        | 120          | 720        | 5.0  |
| Pseudocalanus spp. - adult M | 68                | 16.0        | 117          | 699        | 4.9  |
| Cirripedia - nauplius <5mm   | 66                | 16.0        | 113          | 679        | 4.7  |
| Neocalanus plumchrus C-3     | 61                | 16.0        | 105          | 627        | 4.4  |
| Thecosomata <5mm             | 138               | 5.3         | 78           | 470        | 3.3  |
| Metridia pacifica C-5 M      | 41                | 16.0        | 70           | 422        | 2.9  |
| Metridia pacifica C-5 F      | 40                | 16.0        | 69           | 411        | 2.9  |
| Acartia spp.                 | 73                | 5.3         | 41           | 249        | 1.7  |
| Metriididae C-3              | 23                | 16.0        | 39           | 237        | 1.6  |
| Oithona spp.                 | 45                | 5.3         | 26           | 153        | 1.1  |
| Invertebrata - egg <5mm      | 44                | 5.3         | 25           | 150        | 1.0  |
| Other Copepoda <2mm          | 40                | 5.3         | 23           | 136        | 0.9  |
| Larvacea                     | 39                | 5.3         | 22           | 133        | 0.9  |
| Neocalanus plumchrus C-2     | 12                | 16.0        | 21           | 123        | 0.9  |
| Calanus marshallae - adult F | 34                | 5.3         | 19           | 116        | 0.8  |
| Pseudocalanus spp. C-4 M     | 8                 | 16.0        | 14           | 82         | 0.6  |
| Natantia - larva             | 22                | 5.3         | 12           | 75         | 0.5  |
| Metridia pacifica - adult M  | 22                | 5.3         | 12           | 75         | 0.5  |
| Brachyura - larva            | 21                | 5.3         | 12           | 72         | 0.5  |
| Metridia pacifica - adult F  | 20                | 5.3         | 11           | 68         | 0.5  |
| Euphausiacea - calyptopis 1  | 19                | 5.3         | 11           | 65         | 0.5  |
| Neocalanus cristatus C-4     | 19                | 5.3         | 11           | 65         | 0.5  |
| Euphausiacea - calyptopis 2  | 15                | 5.3         | 9            | 51         | 0.4  |
| Chaetognatha 5-20mm          | 14                | 5.3         | 8            | 48         | 0.3  |
| Calanus marshallae C-3       | 12                | 5.3         | 7            | 41         | 0.3  |
| Anomura - larva              | 10                | 5.3         | 6            | 34         | 0.2  |
| Calanus pacificus C-5        | 10                | 5.3         | 6            | 34         | 0.2  |
| Gymnosomata <5mm             | 8                 | 5.3         | 5            | 27         | 0.2  |
| Pseudocalanus spp. C-4 F     | 2                 | 16.0        | 3            | 21         | 0.1  |
| ?Pseudocalanus spp. C-3      | 2                 | 16.0        | 3            | 21         | 0.1  |
| Gastropoda - veliger <5mm    | 2                 | 16.0        | 3            | 21         | 0.1  |
| Teleostei - larva >5mm       | 6                 | 5.3         | 3            | 20         | 0.1  |
| Calanus pacificus - adult F  | 6                 | 5.3         | 3            | 20         | 0.1  |
| Calanus marshallae C-4       | 6                 | 5.3         | 3            | 20         | 0.1  |
| Hyperiididea <5mm            | 6                 | 5.3         | 3            | 20         | 0.1  |
| Neocalanus cristatus C-5     | 5                 | 5.3         | 3            | 17         | 0.1  |
| Eucalanus bungii C-1         | 5                 | 5.3         | 3            | 17         | 0.1  |
| Euphausiacea - nauplius      | 5                 | 5.3         | 3            | 17         | 0.1  |
| Calanus marshallae C-5       | 4                 | 5.3         | 2            | 14         | 0.1  |
| Eucalanus bungii - adult F   | 4                 | 5.3         | 2            | 14         | 0.1  |
| Calanus marshallae C-2       | 4                 | 5.3         | 2            | 14         | 0.1  |

|                              |   |      |       |       |       |
|------------------------------|---|------|-------|-------|-------|
| Teleostei - egg <5mm         | 4 | 5.3  | 2     | 14    | 0.1   |
| Neocalanus plumchrus C-1     | 1 | 16.0 | 2     | 10    | 0.1   |
| Cirripedia - cypris <5mm     | 1 | 16.0 | 2     | 10    | 0.1   |
| Neocalanus cristatus C-3     | 3 | 5.3  | 2     | 10    | 0.1   |
| Cnidaria - medusa <5mm       | 3 | 5.3  | 2     | 10    | 0.1   |
| Calanus marshallae - adult M | 3 | 5.3  | 2     | 10    | 0.1   |
| Euphausiacea - calyptopis 3  | 2 | 5.3  | 1     | 7     | < 0.1 |
| Calanus marshallae C-1       | 2 | 5.3  | 1     | 7     | < 0.1 |
| Calanus pacificus - adult M  | 2 | 5.3  | 1     | 7     | < 0.1 |
| Euphausiacea - furcilia      | 2 | 5.3  | 1     | 7     | < 0.1 |
| Thysanoessa inermis A&J      | 1 | 5.3  | 1     | 3     | < 0.1 |
| Ostracoda <5mm               | 1 | 5.3  | 1     | 3     | < 0.1 |
| Eucalanus bungii C-4 F       | 1 | 5.3  | 1     | 3     | < 0.1 |
| Other Copepoda 2-5mm         | 1 | 5.3  | 1     | 3     | < 0.1 |
|                              |   |      | ----- | ----- | ----- |
|                              |   |      | 2392  | 14351 | 100.  |

STA. G002A      57 31.5 N      154 47.0 W      02 May 85      20:39

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
188                      0 - 178                      253.9                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Invertebrata - egg <5mm      | 253               | 128.0       | 1275         | 22699      | 22.4 |
| Metridia pacifica - adult M  | 79                | 128.0       | 398          | 7088       | 7.0  |
| Pseudocalanus spp. - adult F | 76                | 128.0       | 383          | 6819       | 6.7  |
| Metridia pacifica C-5 F      | 63                | 128.0       | 318          | 5652       | 5.6  |
| Metridia pacifica - adult F  | 62                | 128.0       | 313          | 5563       | 5.5  |
| Metridia pacifica C-4        | 55                | 128.0       | 277          | 4935       | 4.9  |
| Pseudocalanus spp. C-5 M     | 53                | 128.0       | 267          | 4755       | 4.7  |
| Metridia pacifica C-5 M      | 45                | 128.0       | 227          | 4037       | 4.0  |
| Neocalanus plumchrus C-5     | 42                | 128.0       | 212          | 3768       | 3.7  |
| Ostracoda <5mm               | 42                | 128.0       | 212          | 3768       | 3.7  |
| Pseudocalanus spp. C-5 F     | 37                | 128.0       | 186          | 3320       | 3.3  |
| Acartia spp.                 | 110               | 42.7        | 185          | 3292       | 3.2  |
| Neocalanus plumchrus C-4     | 36                | 128.0       | 181          | 3230       | 3.2  |
| Other Copepoda <2mm          | 103               | 42.7        | 173          | 3083       | 3.0  |
| Pseudocalanus spp. - adult M | 34                | 128.0       | 171          | 3050       | 3.0  |
| Neocalanus plumchrus C-3     | 25                | 128.0       | 126          | 2243       | 2.2  |
| Metriididae C-3              | 25                | 128.0       | 126          | 2243       | 2.2  |
| Oithona spp.                 | 61                | 42.7        | 103          | 1826       | 1.8  |
| Cirripedia - nauplius <5mm   | 44                | 42.7        | 74           | 1317       | 1.3  |
| Thecosomata <5mm             | 30                | 42.7        | 50           | 898        | 0.9  |
| Calanus pacificus C-5        | 70                | 18.3        | 50           | 898        | 0.9  |
| Pseudocalanus spp. C-4 F     | 8                 | 128.0       | 40           | 718        | 0.7  |
| Neocalanus cristatus C-4     | 44                | 18.3        | 32           | 564        | 0.6  |
| Neocalanus plumchrus C-2     | 6                 | 128.0       | 30           | 538        | 0.5  |
| Mysidacea <5mm               | 13                | 42.7        | 22           | 389        | 0.4  |
| Neocalanus cristatus C-5     | 29                | 18.3        | 21           | 372        | 0.4  |
| Chaetognatha 5-20mm          | 11                | 42.7        | 18           | 329        | 0.3  |
| Euphausiacea - calyptopis 2  | 22                | 18.3        | 16           | 282        | 0.3  |
| Gammaridea >5mm              | 9                 | 42.7        | 15           | 269        | 0.3  |
| Chaetognatha <5mm            | 9                 | 42.7        | 15           | 269        | 0.3  |
| Euphausiacea - nauplius      | 20                | 18.3        | 14           | 257        | 0.3  |
| Eucalanus bungii C-1         | 20                | 18.3        | 14           | 257        | 0.3  |
| Euphausiacea - calyptopis 1  | 17                | 18.3        | 12           | 218        | 0.2  |
| Siphonophora <5mm            | 7                 | 42.7        | 12           | 210        | 0.2  |
| Natantia - larva             | 6                 | 42.7        | 10           | 180        | 0.2  |
| Other Copepoda 2-5mm         | 6                 | 42.7        | 10           | 180        | 0.2  |
| Gammaridea <5mm              | 5                 | 42.7        | 8            | 150        | 0.1  |
| Bryozoa - cyphonautes <5mm   | 5                 | 42.7        | 8            | 150        | 0.1  |
| Eucalanus bungii - adult F   | 10                | 18.3        | 7            | 128        | 0.1  |
| Mysidacea >5mm               | 4                 | 42.7        | 7            | 120        | 0.1  |
| Brachyura - larva            | 4                 | 42.7        | 7            | 120        | 0.1  |
| Cnidaria - medusa <5mm       | 4                 | 42.7        | 7            | 120        | 0.1  |
| Calanus marshallae C-3       | 8                 | 18.3        | 6            | 103        | 0.1  |
| Polychaeta <5mm              | 3                 | 42.7        | 5            | 90         | 0.1  |
| Cirripedia - cypris <5mm     | 3                 | 42.7        | 5            | 90         | 0.1  |
| Calanus marshallae - adult F | 7                 | 18.3        | 5            | 90         | 0.1  |

|                              |   |       |       |        |       |
|------------------------------|---|-------|-------|--------|-------|
| Cnidaria - medusa >5mm       | 3 | 42.7  | 5     | 90     | 0.1   |
| Pseudocalanus spp. C-4 M     | 1 | 128.0 | 5     | 90     | 0.1   |
| Euphausiacea - calyptopis 3  | 6 | 18.3  | 4     | 77     | 0.1   |
| Gastropoda - veliger <5mm    | 2 | 42.7  | 3     | 60     | 0.1   |
| Hyperiididea <5mm            | 2 | 42.7  | 3     | 60     | 0.1   |
| Anomura - larva              | 2 | 42.7  | 3     | 60     | 0.1   |
| Calanus marshallae C-5       | 4 | 18.3  | 3     | 51     | 0.1   |
| Eucalanus bungii C-2         | 4 | 18.3  | 3     | 51     | 0.1   |
| Thysanoessa inermis A&J      | 4 | 18.3  | 3     | 51     | 0.1   |
| Gymnosomata <5mm             | 1 | 42.7  | 2     | 30     | < 0.1 |
| Teleostei - egg <5mm         | 1 | 42.7  | 2     | 30     | < 0.1 |
| Other zooplankton >5mm       | 1 | 42.7  | 2     | 30     | < 0.1 |
| Other Copepoda - nauplius    | 1 | 42.7  | 2     | 30     | < 0.1 |
| Invertebrata <5mm            | 1 | 42.7  | 2     | 30     | < 0.1 |
| Eucalanus bungii C-3         | 2 | 18.3  | 1     | 26     | < 0.1 |
| Calanus marshallae - adult M | 2 | 18.3  | 1     | 26     | < 0.1 |
| Calanus pacificus - adult F  | 1 | 18.3  | 1     | 13     | < 0.1 |
| Euphausiacea - furcilia      | 1 | 18.3  | 1     | 13     | < 0.1 |
| Eucalanus bungii - adult M   | 1 | 18.3  | 1     | 13     | < 0.1 |
| Calanus marshallae C-2       | 1 | 18.3  | 1     | 13     | < 0.1 |
| Neocalanus cristatus C-3     | 1 | 18.3  | 1     | 13     | < 0.1 |
| Calanus marshallae C-4       | 1 | 18.3  | 1     | 13     | < 0.1 |
|                              |   |       | ----- | -----  | ----- |
|                              |   |       | 5705  | 101541 | 100.  |

STA. G003A      57 33.6 N      154 53.0 W      02 May 85      22:08

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH

233                      0 - 220                  261.2                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Invertebrata - egg <5mm      | 74                | 256.0       | 725          | 15954      | 13.5 |
| Metridia pacifica - adult M  | 73                | 256.0       | 715          | 15739      | 13.3 |
| Metridia pacifica - adult F  | 36                | 256.0       | 353          | 7762       | 6.6  |
| Neocalanus plumchrus C-5     | 32                | 256.0       | 314          | 6899       | 5.8  |
| Pseudocalanus spp. - adult F | 27                | 256.0       | 265          | 5821       | 4.9  |
| Neocalanus plumchrus C-4     | 25                | 256.0       | 245          | 5390       | 4.6  |
| Ostracoda <5mm               | 25                | 256.0       | 245          | 5390       | 4.6  |
| Pseudocalanus spp. C-5 M     | 25                | 256.0       | 245          | 5390       | 4.6  |
| Metridia pacifica C-4        | 24                | 256.0       | 235          | 5174       | 4.4  |
| Pseudocalanus spp. C-5 F     | 22                | 256.0       | 216          | 4743       | 4.0  |
| Metridia pacifica C-5 M      | 22                | 256.0       | 216          | 4743       | 4.0  |
| Metridia pacifica C-5 F      | 21                | 256.0       | 206          | 4528       | 3.8  |
| Other Copepoda <2mm          | 17                | 256.0       | 167          | 3665       | 3.1  |
| Calanus pacificus C-5        | 16                | 256.0       | 157          | 3450       | 2.9  |
| Neocalanus plumchrus C-3     | 12                | 256.0       | 118          | 2587       | 2.2  |
| Pseudocalanus spp. - adult M | 10                | 256.0       | 98           | 2156       | 1.8  |
| Mysidacea <5mm               | 9                 | 256.0       | 88           | 1940       | 1.6  |
| Pseudocalanus spp. C-4 F     | 7                 | 256.0       | 69           | 1509       | 1.3  |
| Cirripectida - nauplius <5mm | 6                 | 256.0       | 59           | 1294       | 1.1  |
| Oithona spp.                 | 6                 | 256.0       | 59           | 1294       | 1.1  |
| Pseudocalanus spp. C-4 M     | 5                 | 256.0       | 49           | 1078       | 0.9  |
| Metridiidae C-3              | 5                 | 256.0       | 49           | 1078       | 0.9  |
| Euphausiacea - calyptopis 1  | 5                 | 256.0       | 49           | 1078       | 0.9  |
| Thecosomata <5mm             | 5                 | 256.0       | 49           | 1078       | 0.9  |
| Neocalanus plumchrus C-2     | 4                 | 256.0       | 39           | 862        | 0.7  |
| Neocalanus cristatus C-5     | 124               | 8.0         | 38           | 835        | 0.7  |
| Other Copepoda 2-5mm         | 3                 | 256.0       | 29           | 647        | 0.5  |
| Neocalanus cristatus C-4     | 83                | 8.0         | 25           | 559        | 0.5  |
| Acartia spp.                 | 2                 | 256.0       | 20           | 431        | 0.4  |
| Siphonophora <5mm            | 2                 | 256.0       | 20           | 431        | 0.4  |
| Calanus marshallae - adult F | 2                 | 256.0       | 20           | 431        | 0.4  |
| Brachyura - larva            | 2                 | 256.0       | 20           | 431        | 0.4  |
| Larvacea                     | 2                 | 256.0       | 20           | 431        | 0.4  |
| Cirripectida - cypris <5mm   | 2                 | 256.0       | 20           | 431        | 0.4  |
| Gammaridea <5mm              | 2                 | 256.0       | 20           | 431        | 0.4  |
| Chaetognatha >20mm           | 51                | 8.0         | 16           | 344        | 0.3  |
| Gammaridea >5mm              | 45                | 8.0         | 14           | 303        | 0.3  |
| Chaetognatha 5-20mm          | 40                | 8.0         | 12           | 269        | 0.2  |
| Eucalanus bungii C-2         | 1                 | 256.0       | 10           | 216        | 0.2  |
| Euphausiacea - furcilia      | 1                 | 256.0       | 10           | 216        | 0.2  |
| Euphausiacea - nauplius      | 1                 | 256.0       | 10           | 216        | 0.2  |
| Gastropoda - veliger <5mm    | 1                 | 256.0       | 10           | 216        | 0.2  |
| ?Pseudocalanus spp. C-3      | 1                 | 256.0       | 10           | 216        | 0.2  |
| Cnidaria - medusa >5mm       | 21                | 8.0         | 6            | 141        | 0.1  |
| Mysidacea >5mm               | 13                | 8.0         | 4            | 88         | 0.1  |
| Eucalanus bungii - adult F   | 11                | 8.0         | 3            | 74         | 0.1  |

|                                |   |       |        |       |       |
|--------------------------------|---|-------|--------|-------|-------|
| Siphonophora >5mm              | 5 | 8.0   | 2      | 34    | < 0.1 |
| Eucalanus bungii - adult M     | 4 | 8.0   | 1      | 27    | < 0.1 |
| Cumacea >5mm                   | 3 | 8.0   | 1      | 20    | < 0.1 |
| Thysanoessa inermis A&J        | 3 | 8.0   | 1      | 20    | < 0.1 |
| Other Copepoda >5mm            | 3 | 8.0   | 1      | 20    | < 0.1 |
| Teleostei - larva >5mm         | 2 | 8.0   | 1      | 13    | < 0.1 |
| Nematoda >5mm                  | 2 | 8.0   | 1      | 13    | < 0.1 |
| Polychaeta >5mm                | 1 | 8.0   | < 1    | 7     | < 0.1 |
| Neocalanus plumchrus - adult F | 1 | 8.0   | < 1    | 7     | < 0.1 |
| Thysanoessa spinifera A&J      | 1 | 8.0   | < 1    | 7     | < 0.1 |
| Euphausia pacifica A&J         | 1 | 8.0   | < 1    | 7     | < 0.1 |
| Hyperiidia >5mm                | 1 | 8.0   | < 1    | 7     | < 0.1 |
|                                |   | ----- | -----  | ----- |       |
|                                |   | 5370  | 118141 | 100.  |       |

STA. G004A      57 35.9 N      155 01.0 W      03 May 85      0:17

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
241                              0 - 222                              269.3                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Cirripedia - nauplius <5mm   | 86                | 256.0       | 818          | 18152      | 12.5 |
| Metridia pacifica - adult M  | 51                | 256.0       | 485          | 10765      | 7.4  |
| Pseudocalanus spp. - adult F | 48                | 256.0       | 456          | 10132      | 7.0  |
| Neocalanus plumchrus C-4     | 47                | 256.0       | 447          | 9921       | 6.8  |
| Neocalanus plumchrus C-5     | 39                | 256.0       | 371          | 8232       | 5.7  |
| Metridia pacifica C-4        | 39                | 256.0       | 371          | 8232       | 5.7  |
| Pseudocalanus spp. - adult M | 35                | 256.0       | 333          | 7388       | 5.1  |
| Pseudocalanus spp. C-5 F     | 33                | 256.0       | 314          | 6965       | 4.8  |
| Pseudocalanus spp. C-5 M     | 31                | 256.0       | 295          | 6543       | 4.5  |
| Euphausiacea - calyptopis 1  | 30                | 256.0       | 285          | 6332       | 4.4  |
| Metridia pacifica - adult F  | 27                | 256.0       | 257          | 5699       | 3.9  |
| Metridia pacifica C-5 M      | 20                | 256.0       | 190          | 4221       | 2.9  |
| Neocalanus plumchrus C-3     | 19                | 256.0       | 181          | 4010       | 2.8  |
| Metridia pacifica C-5 F      | 19                | 256.0       | 181          | 4010       | 2.8  |
| Neocalanus plumchrus C-2     | 13                | 256.0       | 124          | 2744       | 1.9  |
| Calanus pacificus C-5        | 64                | 51.2        | 122          | 2702       | 1.9  |
| Ostracoda <5mm               | 59                | 51.2        | 112          | 2491       | 1.7  |
| Euphausiacea - calyptopis 2  | 11                | 256.0       | 105          | 2322       | 1.6  |
| Larvacea                     | 53                | 51.2        | 101          | 2237       | 1.5  |
| Metriididae C-3              | 10                | 256.0       | 95           | 2111       | 1.5  |
| Oithona spp.                 | 45                | 51.2        | 86           | 1900       | 1.3  |
| Other Copepoda <2mm          | 44                | 51.2        | 84           | 1857       | 1.3  |
| Euphausiacea - nauplius      | 8                 | 256.0       | 76           | 1689       | 1.2  |
| Acartia spp.                 | 33                | 51.2        | 63           | 1393       | 1.0  |
| Euphausiacea - calyptopis 3  | 6                 | 256.0       | 57           | 1266       | 0.9  |
| Natantia - larva             | 20                | 51.2        | 38           | 844        | 0.6  |
| Pseudocalanus spp. C-4 F     | 4                 | 256.0       | 38           | 844        | 0.6  |
| Eucalanus bungii C-1         | 19                | 51.2        | 36           | 802        | 0.6  |
| Thecosomata <5mm             | 19                | 51.2        | 36           | 802        | 0.6  |
| Invertebrata - egg <5mm      | 17                | 51.2        | 32           | 718        | 0.5  |
| Neocalanus cristatus C-5     | 51                | 16.0        | 30           | 673        | 0.5  |
| Cirripedia - cypris <5mm     | 3                 | 256.0       | 29           | 633        | 0.4  |
| Neocalanus cristatus C-4     | 41                | 16.0        | 24           | 541        | 0.4  |
| Other Copepoda 2-5mm         | 12                | 51.2        | 23           | 507        | 0.3  |
| Pseudocalanus spp. C-4 M     | 2                 | 256.0       | 19           | 422        | 0.3  |
| Gastropoda - veliger <5mm    | 2                 | 256.0       | 19           | 422        | 0.3  |
| Echinodermata - larva <5mm   | 2                 | 256.0       | 19           | 422        | 0.3  |
| Siphonophora <5mm            | 10                | 51.2        | 19           | 422        | 0.3  |
| Mysidacea <5mm               | 8                 | 51.2        | 15           | 338        | 0.2  |
| Chaetognatha <5mm            | 7                 | 51.2        | 13           | 296        | 0.2  |
| Eucalanus bungii C-2         | 6                 | 51.2        | 11           | 253        | 0.2  |
| Teleostei - egg <5mm         | 6                 | 51.2        | 11           | 253        | 0.2  |
| Chaetognatha >20mm           | 18                | 16.0        | 11           | 237        | 0.2  |
| Gammaridea >5mm              | 18                | 16.0        | 11           | 237        | 0.2  |
| Bryozoa - cyphonautes <5mm   | 1                 | 256.0       | 10           | 211        | 0.1  |
| Other Copepoda - nauplius    | 5                 | 51.2        | 10           | 211        | 0.1  |



|                              |    |       |       |        |       |
|------------------------------|----|-------|-------|--------|-------|
| Other zooplankton <5mm       | 1  | 256.0 | 10    | 211    | 0.1   |
| Anomura - larva              | 5  | 51.2  | 10    | 211    | 0.1   |
| Chaetognatha 5-20mm          | 15 | 16.0  | 9     | 198    | 0.1   |
| Calanus marshallae - adult F | 4  | 51.2  | 8     | 169    | 0.1   |
| Calanus marshallae C-3       | 4  | 51.2  | 8     | 169    | 0.1   |
| Eucalanus bungii C-3         | 3  | 51.2  | 6     | 127    | 0.1   |
| Calanus marshallae C-4       | 3  | 51.2  | 6     | 127    | 0.1   |
| Brachyura - larva            | 3  | 51.2  | 6     | 127    | 0.1   |
| Teleostei - larva >5mm       | 8  | 16.0  | 5     | 106    | 0.1   |
| Euphausiacea - furcilia      | 2  | 51.2  | 4     | 84     | 0.1   |
| Cnidaria - medusa >5mm       | 6  | 16.0  | 4     | 79     | 0.1   |
| Eucalanus bungii - adult F   | 5  | 16.0  | 3     | 66     | < 0.1 |
| Mysidacea >5mm               | 4  | 16.0  | 2     | 53     | < 0.1 |
| Neocalanus cristatus C-3     | 1  | 51.2  | 2     | 42     | < 0.1 |
| Invertebrata <5mm            | 1  | 51.2  | 2     | 42     | < 0.1 |
| Gymnosomata <5mm             | 1  | 51.2  | 2     | 42     | < 0.1 |
| Calanus pacificus - adult M  | 1  | 51.2  | 2     | 42     | < 0.1 |
| Siphonophora >5mm            | 3  | 16.0  | 2     | 40     | < 0.1 |
| Hyperiididea >5mm            | 2  | 16.0  | 1     | 26     | < 0.1 |
| Other Copepoda >5mm          | 1  | 16.0  | 1     | 13     | < 0.1 |
|                              |    |       | ----- | -----  | ----- |
|                              |    |       | 6549  | 145378 | 100.  |

STA. G005A      57 38.2 N      155 05.0 W      03 May 85      2:05

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
259                      0 - 223                      311.8                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %   |
|------------------------------|-------------------|-------------|--------------|------------|-----|
| Cirripedia - nauplius <5mm   | 123               | 256.0       | 1010         | 22517      | 9.0 |
| Neocalanus plumchrus C-4     | 109               | 256.0       | 895          | 19954      | 8.0 |
| Pseudocalanus spp. C-5 F     | 90                | 256.0       | 739          | 16476      | 6.6 |
| Pseudocalanus spp. - adult F | 88                | 256.0       | 722          | 16110      | 6.5 |
| Pseudocalanus spp. C-5 M     | 80                | 256.0       | 657          | 14645      | 5.9 |
| Neocalanus plumchrus C-3     | 76                | 256.0       | 624          | 13913      | 5.6 |
| Neocalanus plumchrus C-5     | 71                | 256.0       | 583          | 12998      | 5.2 |
| Metridia pacifica - adult F  | 65                | 256.0       | 534          | 11899      | 4.8 |
| Metridia pacifica - adult M  | 49                | 256.0       | 402          | 8970       | 3.6 |
| Pseudocalanus spp. - adult M | 46                | 256.0       | 378          | 8421       | 3.4 |
| Metridia pacifica C-4        | 46                | 256.0       | 378          | 8421       | 3.4 |
| Larvacea                     | 42                | 256.0       | 345          | 7689       | 3.1 |
| Invertebrata - egg <5mm      | 38                | 256.0       | 312          | 6957       | 2.8 |
| Metridia pacifica C-5 M      | 34                | 256.0       | 279          | 6224       | 2.5 |
| Euphausiacea - nauplius      | 33                | 256.0       | 271          | 6041       | 2.4 |
| Euphausiacea - calyptopis 2  | 31                | 256.0       | 254          | 5675       | 2.3 |
| Metridia pacifica C-5 F      | 29                | 256.0       | 238          | 5309       | 2.1 |
| Ostracoda <5mm               | 27                | 256.0       | 222          | 4943       | 2.0 |
| Euphausiacea - calyptopis 1  | 26                | 256.0       | 213          | 4760       | 1.9 |
| Acartia spp.                 | 22                | 256.0       | 181          | 4027       | 1.6 |
| Other Copepoda <2mm          | 22                | 256.0       | 181          | 4027       | 1.6 |
| Metridiidae C-3              | 21                | 256.0       | 172          | 3844       | 1.5 |
| Thecosomata <5mm             | 21                | 256.0       | 172          | 3844       | 1.5 |
| Neocalanus plumchrus C-2     | 20                | 256.0       | 164          | 3661       | 1.5 |
| Oithona spp.                 | 19                | 256.0       | 156          | 3478       | 1.4 |
| Pseudocalanus spp. C-4 M     | 17                | 256.0       | 140          | 3112       | 1.2 |
| Pseudocalanus spp. C-4 F     | 15                | 256.0       | 123          | 2746       | 1.1 |
| Eucalanus bungii C-1         | 48                | 51.2        | 79           | 1757       | 0.7 |
| Neocalanus plumchrus C-1     | 7                 | 256.0       | 57           | 1281       | 0.5 |
| Cirripedia - cypris <5mm     | 6                 | 256.0       | 49           | 1098       | 0.4 |
| Calanus pacificus C-5        | 27                | 51.2        | 44           | 989        | 0.4 |
| Echinodermata - larva <5mm   | 5                 | 256.0       | 41           | 915        | 0.4 |
| Euphausiacea - calyptopis 3  | 5                 | 256.0       | 41           | 915        | 0.4 |
| Other Copepoda - nauplius    | 5                 | 256.0       | 41           | 915        | 0.4 |
| Other Copepoda 2-5mm         | 5                 | 256.0       | 41           | 915        | 0.4 |
| Polychaeta <5mm              | 4                 | 256.0       | 33           | 732        | 0.3 |
| Gammaridea <5mm              | 16                | 51.2        | 26           | 586        | 0.2 |
| Mysidacea <5mm               | 16                | 51.2        | 26           | 586        | 0.2 |
| Other zooplankton <5mm       | 3                 | 256.0       | 25           | 549        | 0.2 |
| Bryozoa - cyphonautes <5mm   | 3                 | 256.0       | 25           | 549        | 0.2 |
| Calanus marshallae C-2       | 15                | 51.2        | 25           | 549        | 0.2 |
| Gastropoda - veliger <5mm    | 3                 | 256.0       | 25           | 549        | 0.2 |
| Natantia - larva             | 15                | 51.2        | 25           | 549        | 0.2 |
| Neocalanus cristatus C-5     | 35                | 16.0        | 18           | 400        | 0.2 |
| ?Pseudocalanus spp. C-3      | 2                 | 256.0       | 16           | 366        | 0.1 |
| Chaetognatha <5mm            | 9                 | 51.2        | 15           | 330        | 0.1 |

|                              |    |       |       |        |       |
|------------------------------|----|-------|-------|--------|-------|
| Neocalanus cristatus C-4     | 24 | 16.0  | 12    | 275    | 0.1   |
| Calanus marshallae C-1       | 7  | 51.2  | 11    | 256    | 0.1   |
| Eucalanus bungii C-2         | 7  | 51.2  | 11    | 256    | 0.1   |
| Calanus marshallae C-3       | 7  | 51.2  | 11    | 256    | 0.1   |
| Calanus marshallae C-4       | 7  | 51.2  | 11    | 256    | 0.1   |
| Chaetognatha >20mm           | 19 | 16.0  | 10    | 217    | 0.1   |
| Gammaridea >5mm              | 18 | 16.0  | 9     | 206    | 0.1   |
| Calanus marshallae C-5       | 5  | 51.2  | 8     | 183    | 0.1   |
| Brachyura - larva            | 5  | 51.2  | 8     | 183    | 0.1   |
| Gymnosomata <5mm             | 1  | 256.0 | 8     | 183    | 0.1   |
| Neocalanus plumchrus C-1     | 1  | 256.0 | 8     | 183    | 0.1   |
| Siphonophora <5mm            | 4  | 51.2  | 7     | 146    | 0.1   |
| Anomura - larva              | 4  | 51.2  | 7     | 146    | 0.1   |
| Euphausiacea - furcilia      | 4  | 51.2  | 7     | 146    | 0.1   |
| Eucalanus bungii - adult F   | 10 | 16.0  | 5     | 114    | < 0.1 |
| Chaetognatha 5-20mm          | 10 | 16.0  | 5     | 114    | < 0.1 |
| Calanus marshallae - adult F | 3  | 51.2  | 5     | 110    | < 0.1 |
| Hyperiidia <5mm              | 3  | 51.2  | 5     | 110    | < 0.1 |
| Teleostei - egg <5mm         | 3  | 51.2  | 5     | 110    | < 0.1 |
| Cnidaria - medusa >5mm       | 9  | 16.0  | 5     | 103    | < 0.1 |
| Teleostei - larva >5mm       | 7  | 16.0  | 4     | 80     | < 0.1 |
| Mysidacea >5mm               | 7  | 16.0  | 4     | 80     | < 0.1 |
| Calanus pacificus - adult F  | 2  | 51.2  | 3     | 73     | < 0.1 |
| Neocalanus cristatus C-3     | 2  | 51.2  | 3     | 73     | < 0.1 |
| Cnidaria - medusa <5mm       | 1  | 51.2  | 2     | 37     | < 0.1 |
| Polychaeta >5mm              | 3  | 16.0  | 2     | 34     | < 0.1 |
| Siphonophora >5mm            | 3  | 16.0  | 2     | 34     | < 0.1 |
| Thysanoessa spinifera A&J    | 2  | 16.0  | 1     | 23     | < 0.1 |
| Other Copepoda >5mm          | 1  | 16.0  | 1     | 11     | < 0.1 |
| Other zooplankton >5mm       | 1  | 16.0  | 1     | 11     | < 0.1 |
| Nematoda >5mm                | 1  | 16.0  | 1     | 11     | < 0.1 |
| Hyperiidia >5mm              | 1  | 16.0  | 1     | 11     | < 0.1 |
|                              |    |       | ----- | -----  | ----- |
|                              |    |       | 11176 | 249234 | 100.  |

STA. G006A 57 40.9 N 155 08.0 W 03 May 85 4:20

DEPTH 292 SAMPLING INTERVAL 0 - 240 VOLUME FILTERED 307.2 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %   |
|------------------------------|-------------------|-------------|--------------|------------|-----|
| Pseudocalanus spp. - adult F | 71                | 256.0       | 592          | 14201      | 8.4 |
| Neocalanus plumchrus C-4     | 64                | 256.0       | 533          | 12801      | 7.6 |
| Metridia pacifica C-4        | 58                | 256.0       | 483          | 11601      | 6.9 |
| Metridia pacifica C-5 M      | 57                | 256.0       | 475          | 11401      | 6.8 |
| Pseudocalanus spp. C-5 M     | 56                | 256.0       | 467          | 11201      | 6.7 |
| Metridia pacifica C-5 F      | 56                | 256.0       | 467          | 11201      | 6.7 |
| Pseudocalanus spp. C-5 F     | 47                | 256.0       | 392          | 9401       | 5.6 |
| Neocalanus plumchrus C-5     | 45                | 256.0       | 375          | 9000       | 5.3 |
| Pseudocalanus spp. - adult M | 41                | 256.0       | 342          | 8200       | 4.9 |
| Neocalanus plumchrus C-3     | 40                | 256.0       | 333          | 8000       | 4.8 |
| Invertebrata - egg <5mm      | 40                | 256.0       | 333          | 8000       | 4.8 |
| Cirripedia - nauplius <5mm   | 29                | 256.0       | 242          | 5800       | 3.4 |
| Metriididae C-3              | 21                | 256.0       | 175          | 4200       | 2.5 |
| Metridia pacifica - adult F  | 21                | 256.0       | 175          | 4200       | 2.5 |
| Oithona spp.                 | 19                | 256.0       | 158          | 3800       | 2.3 |
| Metridia pacifica - adult M  | 19                | 256.0       | 158          | 3800       | 2.3 |
| Ostracoda <5mm               | 18                | 256.0       | 150          | 3600       | 2.1 |
| Other Copepoda <2mm          | 13                | 256.0       | 108          | 2600       | 1.5 |
| Larvacea                     | 13                | 256.0       | 108          | 2600       | 1.5 |
| Calanus pacificus C-5        | 9                 | 256.0       | 75           | 1800       | 1.1 |
| Thecosomata <5mm             | 8                 | 256.0       | 67           | 1600       | 1.0 |
| Bryozoa - cyphonautes <5mm   | 8                 | 256.0       | 67           | 1600       | 1.0 |
| Euphausiacea - calyptopis 1  | 7                 | 256.0       | 58           | 1400       | 0.8 |
| Euphausiacea - nauplius      | 7                 | 256.0       | 58           | 1400       | 0.8 |
| Pseudocalanus spp. C-4 F     | 7                 | 256.0       | 58           | 1400       | 0.8 |
| Pseudocalanus spp. C-4 M     | 5                 | 256.0       | 42           | 1000       | 0.6 |
| Echinodermata - larva <5mm   | 5                 | 256.0       | 42           | 1000       | 0.6 |
| Gammaridea <5mm              | 5                 | 256.0       | 42           | 1000       | 0.6 |
| Acartia spp.                 | 5                 | 256.0       | 42           | 1000       | 0.6 |
| Neocalanus plumchrus C-2     | 4                 | 256.0       | 33           | 800        | 0.5 |
| Other Copepoda - nauplius    | 4                 | 256.0       | 33           | 800        | 0.5 |
| Other Copepoda 2-5mm         | 3                 | 256.0       | 25           | 600        | 0.4 |
| Neocalanus plumchrus C-1     | 3                 | 256.0       | 25           | 600        | 0.4 |
| Mysidacea <5mm               | 3                 | 256.0       | 25           | 600        | 0.4 |
| Euphausiacea - calyptopis 2  | 3                 | 256.0       | 25           | 600        | 0.4 |
| Neocalanus cristatus C-4     | 78                | 8.0         | 20           | 488        | 0.3 |
| Polychaeta <5mm              | 2                 | 256.0       | 17           | 400        | 0.2 |
| Siphonophora <5mm            | 2                 | 256.0       | 17           | 400        | 0.2 |
| Eucalanus bungii C-2         | 2                 | 256.0       | 17           | 400        | 0.2 |
| Eucalanus bungii C-1         | 2                 | 256.0       | 17           | 400        | 0.2 |
| Hyperiididae <5mm            | 2                 | 256.0       | 17           | 400        | 0.2 |
| Calanus marshallae C-3       | 2                 | 256.0       | 17           | 400        | 0.2 |
| Chaetognatha >20mm           | 50                | 8.0         | 13           | 313        | 0.2 |
| Neocalanus cristatus C-5     | 46                | 8.0         | 12           | 288        | 0.2 |
| Chaetognatha 5-20mm          | 44                | 8.0         | 11           | 275        | 0.2 |
| Gammaridea >5mm              | 40                | 8.0         | 10           | 250        | 0.1 |

|                                |    |       |       |        |       |
|--------------------------------|----|-------|-------|--------|-------|
| Euphausiacea - calyptopis 3    | 1  | 256.0 | 8     | 200    | 0.1   |
| Calanus marshallae C-4         | 1  | 256.0 | 8     | 200    | 0.1   |
| Cirripedia - cypris <5mm       | 1  | 256.0 | 8     | 200    | 0.1   |
| Other zooplankton <5mm         | 1  | 256.0 | 8     | 200    | 0.1   |
| Natantia - larva               | 1  | 256.0 | 8     | 200    | 0.1   |
| Calanus marshallae C-2         | 1  | 256.0 | 8     | 200    | 0.1   |
| Eucalanus bungii - adult F     | 16 | 8.0   | 4     | 100    | 0.1   |
| Siphonophora >5mm              | 14 | 8.0   | 4     | 88     | 0.1   |
| Teleostei - larva >5mm         | 7  | 8.0   | 2     | 44     | < 0.1 |
| Hyperiididae >5mm              | 6  | 8.0   | 2     | 38     | < 0.1 |
| Mysidacea >5mm                 | 5  | 8.0   | 1     | 31     | < 0.1 |
| Eucalanus bungii - adult M     | 2  | 8.0   | 1     | 13     | < 0.1 |
| Polychaeta >5mm                | 2  | 8.0   | 1     | 13     | < 0.1 |
| Cnidaria - medusa >5mm         | 2  | 8.0   | 1     | 13     | < 0.1 |
| Euphausia pacifica A&J         | 1  | 8.0   | < 1   | 6      | < 0.1 |
| Nematoda >5mm                  | 1  | 8.0   | < 1   | 6      | < 0.1 |
| Neocalanus plumchrus - adult F | 1  | 8.0   | < 1   | 6      | < 0.1 |
| Other Copepoda >5mm            | 1  | 8.0   | < 1   | 6      | < 0.1 |
| Natantia A&J >5mm              | 1  | 8.0   | < 1   | 6      | < 0.1 |
|                                |    |       | ----- | -----  | ----- |
|                                |    |       | 7016  | 168391 | 100.  |

STA. G007A      57 43.8 N      155 15.0 W      03 May 85      6:47

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
102                              0 - 94                              125.6                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Cirripedia - nauplius <5mm   | 214               | 128.0       | 2181         | 20506      | 22.5 |
| Pseudocalanus spp. - adult F | 86                | 128.0       | 877          | 8241       | 9.0  |
| Neocalanus plumchrus C-4     | 79                | 128.0       | 805          | 7570       | 8.3  |
| Pseudocalanus spp. C-5 M     | 76                | 128.0       | 775          | 7282       | 8.0  |
| Pseudocalanus spp. C-5 F     | 68                | 128.0       | 693          | 6516       | 7.1  |
| Neocalanus plumchrus C-3     | 64                | 128.0       | 652          | 6133       | 6.7  |
| Pseudocalanus spp. - adult M | 48                | 128.0       | 489          | 4599       | 5.0  |
| Neocalanus plumchrus C-5     | 48                | 128.0       | 489          | 4599       | 5.0  |
| Thecosomata <5mm             | 27                | 128.0       | 275          | 2587       | 2.8  |
| Invertebrata - egg <5mm      | 23                | 128.0       | 234          | 2204       | 2.4  |
| Neocalanus plumchrus C-2     | 22                | 128.0       | 224          | 2108       | 2.3  |
| Larvacea                     | 21                | 128.0       | 214          | 2012       | 2.2  |
| Metridia pacifica C-5 M      | 20                | 128.0       | 204          | 1916       | 2.1  |
| Metridia pacifica C-4        | 19                | 128.0       | 194          | 1821       | 2.0  |
| Euphausiacea - calyptopis 2  | 18                | 128.0       | 183          | 1725       | 1.9  |
| Acartia spp.                 | 18                | 128.0       | 183          | 1725       | 1.9  |
| Euphausiacea - calyptopis 1  | 18                | 128.0       | 183          | 1725       | 1.9  |
| Euphausiacea - nauplius      | 9                 | 128.0       | 92           | 862        | 0.9  |
| Cirripedia - cypris <5mm     | 9                 | 128.0       | 92           | 862        | 0.9  |
| Pseudocalanus spp. C-4 F     | 8                 | 128.0       | 82           | 767        | 0.8  |
| Eucalanus bungii C-1         | 6                 | 128.0       | 61           | 575        | 0.6  |
| Other Copepoda <2mm          | 5                 | 128.0       | 51           | 479        | 0.5  |
| Metridia pacifica C-5 F      | 4                 | 128.0       | 41           | 383        | 0.4  |
| Metridia pacifica - adult F  | 4                 | 128.0       | 41           | 383        | 0.4  |
| Bryozoa - cyphonautes <5mm   | 3                 | 128.0       | 31           | 287        | 0.3  |
| Eucalanus bungii C-2         | 3                 | 128.0       | 31           | 287        | 0.3  |
| Metriididae C-3              | 3                 | 128.0       | 31           | 287        | 0.3  |
| Pseudocalanus spp. C-4 M     | 3                 | 128.0       | 31           | 287        | 0.3  |
| Other Copepoda 2-5mm         | 3                 | 128.0       | 31           | 287        | 0.3  |
| Polychaeta <5mm              | 3                 | 128.0       | 31           | 287        | 0.3  |
| Calanus marshallae C-1       | 2                 | 128.0       | 20           | 192        | 0.2  |
| Echinodermata - larva <5mm   | 2                 | 128.0       | 20           | 192        | 0.2  |
| Natantia - larva             | 2                 | 128.0       | 20           | 192        | 0.2  |
| Calanus pacificus - adult M  | 1                 | 128.0       | 10           | 96         | 0.1  |
| Oithona spp.                 | 1                 | 128.0       | 10           | 96         | 0.1  |
| Calanus marshallae C-4       | 1                 | 128.0       | 10           | 96         | 0.1  |
| Gastropoda - veliger <5mm    | 1                 | 128.0       | 10           | 96         | 0.1  |
| Euphausiacea - calyptopis 3  | 1                 | 128.0       | 10           | 96         | 0.1  |
| Calanus marshallae C-3       | 1                 | 128.0       | 10           | 96         | 0.1  |
| Calanus marshallae C-2       | 1                 | 128.0       | 10           | 96         | 0.1  |
| Cnidaria - medusa <5mm       | 1                 | 128.0       | 10           | 96         | 0.1  |
| Neocalanus plumchrus C-1     | 1                 | 128.0       | 10           | 96         | 0.1  |
| Other zooplankton <5mm       | 1                 | 128.0       | 10           | 96         | 0.1  |
| Gymnosomata <5mm             | 1                 | 128.0       | 10           | 96         | 0.1  |
| Chaetognatha 5-20mm          | 58                | 2.0         | 9            | 87         | 0.1  |
| Cnidaria - medusa >5mm       | 52                | 2.0         | 8            | 78         | 0.1  |

|                            |    |     |       |       |       |
|----------------------------|----|-----|-------|-------|-------|
| Teleostei - larva >5mm     | 42 | 2.0 | 7     | 63    | 0.1   |
| Eucalanus bungii - adult F | 26 | 2.0 | 4     | 39    | < 0.1 |
| Neocalanus cristatus C-4   | 17 | 2.0 | 3     | 25    | < 0.1 |
| Neocalanus cristatus C-5   | 7  | 2.0 | 1     | 10    | < 0.1 |
| Hyperiidea >5mm            | 2  | 2.0 | < 1   | 3     | < 0.1 |
| Mysidacea >5mm             | 1  | 2.0 | < 1   | 1     | < 0.1 |
| Cumacea >5mm               | 1  | 2.0 | < 1   | 1     | < 0.1 |
| Thysanoessa longipes A&J   | 1  | 2.0 | < 1   | 1     | < 0.1 |
| Chaetognatha >20mm         | 1  | 2.0 | < 1   | 1     | < 0.1 |
| Thysanoessa inermis A&J    | 1  | 2.0 | < 1   | 1     | < 0.1 |
| Thysanoessa spinifera A&J  | 1  | 2.0 | < 1   | 1     | < 0.1 |
|                            |    |     | ----- | ----- | ----- |
|                            |    |     | 9707  | 91249 | 100.  |

STA. G008A      57 40.1 N      155 20.0 W      03 May 85      8:10

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
192                              0 - 161                              248.8                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Neocalanus plumchrus C-4     | 85                | 512.0       | 1750         | 28168      | 11.3 |
| Neocalanus plumchrus C-5     | 78                | 512.0       | 1605         | 25848      | 10.4 |
| Cirripedia - nauplius <5mm   | 72                | 512.0       | 1482         | 23860      | 9.6  |
| Metridia pacifica C-4        | 65                | 512.0       | 1338         | 21540      | 8.7  |
| Pseudocalanus spp. - adult F | 54                | 512.0       | 1111         | 17895      | 7.2  |
| Metridia pacifica C-5 M      | 42                | 512.0       | 864          | 13918      | 5.6  |
| Pseudocalanus spp. C-5 F     | 34                | 512.0       | 700          | 11267      | 4.5  |
| Pseudocalanus spp. - adult M | 30                | 512.0       | 617          | 9942       | 4.0  |
| Metridia pacifica - adult F  | 30                | 512.0       | 617          | 9942       | 4.0  |
| Neocalanus plumchrus C-3     | 28                | 512.0       | 576          | 9279       | 3.7  |
| Neocalanus plumchrus C-2     | 24                | 512.0       | 494          | 7953       | 3.2  |
| Pseudocalanus spp. C-5 M     | 22                | 512.0       | 453          | 7290       | 2.9  |
| Metridia pacifica C-5 F      | 20                | 512.0       | 412          | 6628       | 2.7  |
| Euphausiacea - calyptopis 1  | 13                | 512.0       | 268          | 4308       | 1.7  |
| Euphausiacea - calyptopis 2  | 13                | 512.0       | 268          | 4308       | 1.7  |
| Larvacea                     | 12                | 512.0       | 247          | 3977       | 1.6  |
| Thecosomata <5mm             | 12                | 512.0       | 247          | 3977       | 1.6  |
| Euphausiacea - nauplius      | 10                | 512.0       | 206          | 3314       | 1.3  |
| Invertebrata - egg <5mm      | 10                | 512.0       | 206          | 3314       | 1.3  |
| Metriididae C-3              | 9                 | 512.0       | 185          | 2982       | 1.2  |
| Eucalanus bungii C-1         | 8                 | 512.0       | 165          | 2651       | 1.1  |
| Calanus marshallae C-3       | 8                 | 512.0       | 165          | 2651       | 1.1  |
| Acartia spp.                 | 7                 | 512.0       | 144          | 2320       | 0.9  |
| Ostracoda <5mm               | 6                 | 512.0       | 123          | 1988       | 0.8  |
| Euphausiacea - calyptopis 3  | 5                 | 512.0       | 103          | 1657       | 0.7  |
| Other Copepoda <2mm          | 5                 | 512.0       | 103          | 1657       | 0.7  |
| Cirripedia - cypris <5mm     | 5                 | 512.0       | 103          | 1657       | 0.7  |
| Calanus marshallae C-2       | 4                 | 512.0       | 82           | 1326       | 0.5  |
| Other Copepoda 2-5mm         | 4                 | 512.0       | 82           | 1326       | 0.5  |
| Other Copepoda - nauplius    | 4                 | 512.0       | 82           | 1326       | 0.5  |
| Pseudocalanus spp. C-4 F     | 4                 | 512.0       | 82           | 1326       | 0.5  |
| Oithona spp.                 | 3                 | 512.0       | 62           | 994        | 0.4  |
| Calanus marshallae C-4       | 3                 | 512.0       | 62           | 994        | 0.4  |
| Echinodermata - larva <5mm   | 2                 | 512.0       | 41           | 663        | 0.3  |
| Gastropoda - veliger <5mm    | 2                 | 512.0       | 41           | 663        | 0.3  |
| Chaetognatha 5-20mm          | 154               | 4.0         | 25           | 399        | 0.2  |
| Natantia - larva             | 1                 | 512.0       | 21           | 331        | 0.1  |
| Polychaeta <5mm              | 1                 | 512.0       | 21           | 331        | 0.1  |
| Metriididae C-2              | 1                 | 512.0       | 21           | 331        | 0.1  |
| Teleostei - egg <5mm         | 1                 | 512.0       | 21           | 331        | 0.1  |
| Calanus marshallae - adult F | 1                 | 512.0       | 21           | 331        | 0.1  |
| Metridia pacifica - adult M  | 1                 | 512.0       | 21           | 331        | 0.1  |
| Eucalanus bungii C-2         | 1                 | 512.0       | 21           | 331        | 0.1  |
| Bryozoa - cyphonautes <5mm   | 1                 | 512.0       | 21           | 331        | 0.1  |
| Hyperiididea <5mm            | 1                 | 512.0       | 21           | 331        | 0.1  |
| Calanus pacificus C-5        | 1                 | 512.0       | 21           | 331        | 0.1  |



|                            |    |       |       |        |       |
|----------------------------|----|-------|-------|--------|-------|
| Cnidaria - medusa <5mm     | 1  | 512.0 | 21    | 331    | 0.1   |
| Pseudocalanus spp. C-4 M   | 1  | 512.0 | 21    | 331    | 0.1   |
| Invertebrata <5mm          | 1  | 512.0 | 21    | 331    | 0.1   |
| Neocalanus cristatus C-4   | 92 | 4.0   | 15    | 238    | 0.1   |
| Gammaridea >5mm            | 63 | 4.0   | 10    | 163    | 0.1   |
| Eucalanus bungii - adult F | 52 | 4.0   | 8     | 135    | 0.1   |
| Teleostei - larva >5mm     | 51 | 4.0   | 8     | 132    | 0.1   |
| Neocalanus cristatus C-5   | 40 | 4.0   | 6     | 104    | < 0.1 |
| Cnidaria - medusa >5mm     | 28 | 4.0   | 5     | 72     | < 0.1 |
| Chaetognatha >20mm         | 11 | 4.0   | 2     | 28     | < 0.1 |
| Other Copepoda >5mm        | 7  | 4.0   | 1     | 18     | < 0.1 |
| Hyperiididea >5mm          | 7  | 4.0   | 1     | 18     | < 0.1 |
| Thysanoessa inermis A&J    | 4  | 4.0   | 1     | 10     | < 0.1 |
| Thysanoessa spinifera A&J  | 3  | 4.0   | < 1   | 8      | < 0.1 |
| Euphausia pacifica A&J     | 2  | 4.0   | < 1   | 5      | < 0.1 |
| Polychaeta >5mm            | 2  | 4.0   | < 1   | 5      | < 0.1 |
| Gymnosomata >5mm           | 2  | 4.0   | < 1   | 5      | < 0.1 |
| Eucalanus bungii - adult M | 1  | 4.0   | < 1   | 3      | < 0.1 |
| Decapoda (Mollusca) >5mm   | 1  | 4.0   | < 1   | 3      | < 0.1 |
| Thysanoessa raschii A&J    | 1  | 4.0   | < 1   | 3      | < 0.1 |
|                            |    |       | ----- | -----  | ----- |
|                            |    |       | 15439 | 248562 | 100.  |

STA. G009A      57 35.9 N      155 14.0 W      03 May 85      9:06

DEPTH                      SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
285                      0 - 273                      314.6                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Cirripedia - nauplius <5mm   | 98                | 256.0       | 797          | 21770      | 11.8 |
| Neocalanus plumchrus C-4     | 77                | 256.0       | 627          | 17105      | 9.3  |
| Pseudocalanus spp. - adult F | 72                | 256.0       | 586          | 15995      | 8.7  |
| Neocalanus plumchrus C-5     | 58                | 256.0       | 472          | 12885      | 7.0  |
| Metridia pacifica C-4        | 48                | 256.0       | 391          | 10663      | 5.8  |
| Pseudocalanus spp. C-5 F     | 41                | 256.0       | 334          | 9108       | 4.9  |
| Metridia pacifica - adult M  | 37                | 256.0       | 301          | 8219       | 4.5  |
| Pseudocalanus spp. - adult M | 36                | 256.0       | 293          | 7997       | 4.3  |
| Metriididae C-3              | 36                | 256.0       | 293          | 7997       | 4.3  |
| Pseudocalanus spp. C-5 M     | 34                | 256.0       | 277          | 7553       | 4.1  |
| Metridia pacifica C-5 M      | 30                | 256.0       | 244          | 6664       | 3.6  |
| Neocalanus plumchrus C-3     | 29                | 256.0       | 236          | 6442       | 3.5  |
| Metridia pacifica C-5 F      | 24                | 256.0       | 195          | 5332       | 2.9  |
| Metridia pacifica - adult F  | 23                | 256.0       | 187          | 5109       | 2.8  |
| Ostracoda <5mm               | 22                | 256.0       | 179          | 4887       | 2.7  |
| Neocalanus plumchrus C-2     | 17                | 256.0       | 138          | 3777       | 2.1  |
| Invertebrata - egg <5mm      | 17                | 256.0       | 138          | 3777       | 2.1  |
| Other Copepoda <2mm          | 15                | 256.0       | 122          | 3332       | 1.8  |
| Euphausiacea - calyptopis 2  | 15                | 256.0       | 122          | 3332       | 1.8  |
| Oithona spp.                 | 12                | 256.0       | 98           | 2666       | 1.4  |
| Larvacea                     | 9                 | 256.0       | 73           | 1999       | 1.1  |
| Mysidacea <5mm               | 7                 | 256.0       | 57           | 1555       | 0.8  |
| Euphausiacea - calyptopis 1  | 7                 | 256.0       | 57           | 1555       | 0.8  |
| Calanus pacificus C-5        | 6                 | 256.0       | 49           | 1333       | 0.7  |
| Pseudocalanus spp. C-4 M     | 6                 | 256.0       | 49           | 1333       | 0.7  |
| Other Copepoda 2-5mm         | 5                 | 256.0       | 41           | 1111       | 0.6  |
| Cirripedia - cypris <5mm     | 5                 | 256.0       | 41           | 1111       | 0.6  |
| Eucalanus bungii C-1         | 4                 | 256.0       | 33           | 889        | 0.5  |
| Pseudocalanus spp. C-4 F     | 4                 | 256.0       | 33           | 889        | 0.5  |
| Euphausiacea - nauplius      | 3                 | 256.0       | 24           | 666        | 0.4  |
| Thecosomata <5mm             | 3                 | 256.0       | 24           | 666        | 0.4  |
| Acartia spp.                 | 3                 | 256.0       | 24           | 666        | 0.4  |
| Neocalanus cristatus C-4     | 78                | 8.0         | 20           | 541        | 0.3  |
| Hyperiididea <5mm            | 2                 | 256.0       | 16           | 444        | 0.2  |
| Natantia - larva             | 2                 | 256.0       | 16           | 444        | 0.2  |
| Brachyura - larva            | 2                 | 256.0       | 16           | 444        | 0.2  |
| Other Copepoda - nauplius    | 2                 | 256.0       | 16           | 444        | 0.2  |
| Neocalanus cristatus C-5     | 63                | 8.0         | 16           | 437        | 0.2  |
| Chaetognatha 5-20mm          | 55                | 8.0         | 14           | 382        | 0.2  |
| Calanus marshallae C-1       | 1                 | 256.0       | 8            | 222        | 0.1  |
| Euphausiacea - calyptopis 3  | 1                 | 256.0       | 8            | 222        | 0.1  |
| Calanus marshallae - adult F | 1                 | 256.0       | 8            | 222        | 0.1  |
| Teleostei - egg <5mm         | 1                 | 256.0       | 8            | 222        | 0.1  |
| Bryozoa - cyphonautes <5mm   | 1                 | 256.0       | 8            | 222        | 0.1  |
| Calanus marshallae C-2       | 1                 | 256.0       | 8            | 222        | 0.1  |
| Polychaeta <5mm              | 1                 | 256.0       | 8            | 222        | 0.1  |

|                                |    |       |       |        |       |
|--------------------------------|----|-------|-------|--------|-------|
| Gymnosomata <5mm               | 1  | 256.0 | 8     | 222    | 0.1   |
| Gammaridea >5mm                | 31 | 8.0   | 8     | 215    | 0.1   |
| Mysidacea >5mm                 | 15 | 8.0   | 4     | 104    | 0.1   |
| Teleostei - larva >5mm         | 14 | 8.0   | 4     | 97     | 0.1   |
| Eucalanus bungii - adult F     | 14 | 8.0   | 4     | 97     | 0.1   |
| Chaetognatha >20mm             | 10 | 8.0   | 3     | 69     | < 0.1 |
| Other Copepoda >5mm            | 10 | 8.0   | 3     | 69     | < 0.1 |
| Cnidaria - medusa >5mm         | 9  | 8.0   | 2     | 62     | < 0.1 |
| Siphonophora >5mm              | 7  | 8.0   | 2     | 49     | < 0.1 |
| Thysanoessa inermis A&J        | 5  | 8.0   | 1     | 35     | < 0.1 |
| Eucalanus bungii - adult M     | 3  | 8.0   | 1     | 21     | < 0.1 |
| Polychaeta >5mm                | 3  | 8.0   | 1     | 21     | < 0.1 |
| Hyperiidia >5mm                | 2  | 8.0   | 1     | 14     | < 0.1 |
| Nematoda >5mm                  | 2  | 8.0   | 1     | 14     | < 0.1 |
| Euphausia pacifica A&J         | 1  | 8.0   | < 1   | 7      | < 0.1 |
| Thysanoessa spinifera A&J      | 1  | 8.0   | < 1   | 7      | < 0.1 |
| Neocalanus plumchrus - adult F | 1  | 8.0   | < 1   | 7      | < 0.1 |
|                                |    |       | ----- | -----  | ----- |
|                                |    |       | 6747  | 184188 | 100.  |

STA. G010A 57 33.1 N 155 07.0 W 03 May 85 10:15

DEPTH 252 SAMPLING INTERVAL 0 - 220 VOLUME FILTERED 310.7 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Pseudocalanus spp. - adult F | 43                | 512.0       | 709          | 15591      | 11.6 |
| Neocalanus plumchrus C-4     | 40                | 512.0       | 659          | 14503      | 10.8 |
| Neocalanus plumchrus C-5     | 37                | 512.0       | 610          | 13416      | 10.0 |
| Pseudocalanus spp. C-5 F     | 28                | 512.0       | 461          | 10152      | 7.6  |
| Pseudocalanus spp. C-5 M     | 26                | 512.0       | 429          | 9427       | 7.0  |
| Cirripedia - nauplius <5mm   | 18                | 512.0       | 297          | 6527       | 4.9  |
| Metridia pacifica - adult F  | 17                | 512.0       | 280          | 6164       | 4.6  |
| Metridia pacifica - adult M  | 16                | 512.0       | 264          | 5801       | 4.3  |
| Pseudocalanus spp. - adult M | 15                | 512.0       | 247          | 5439       | 4.0  |
| Metridia pacifica C-4        | 14                | 512.0       | 231          | 5076       | 3.8  |
| Neocalanus plumchrus C-3     | 13                | 512.0       | 214          | 4714       | 3.5  |
| Neocalanus plumchrus C-2     | 13                | 512.0       | 214          | 4714       | 3.5  |
| Ostracoda <5mm               | 11                | 512.0       | 181          | 3988       | 3.0  |
| Invertebrata - egg <5mm      | 10                | 512.0       | 165          | 3626       | 2.7  |
| Metridia pacifica C-5 M      | 9                 | 512.0       | 148          | 3263       | 2.4  |
| Other Copepoda <2mm          | 6                 | 512.0       | 99           | 2176       | 1.6  |
| Metridia pacifica C-5 F      | 6                 | 512.0       | 99           | 2176       | 1.6  |
| Metriididae C-3              | 5                 | 512.0       | 82           | 1813       | 1.3  |
| Acartia spp.                 | 5                 | 512.0       | 82           | 1813       | 1.3  |
| Euphausiacea - calyptopis 2  | 4                 | 512.0       | 66           | 1450       | 1.1  |
| Oithona spp.                 | 4                 | 512.0       | 66           | 1450       | 1.1  |
| Pseudocalanus spp. C-4 M     | 3                 | 512.0       | 49           | 1088       | 0.8  |
| Pseudocalanus spp. C-4 F     | 3                 | 512.0       | 49           | 1088       | 0.8  |
| Metriididae C-2              | 2                 | 512.0       | 33           | 725        | 0.5  |
| Eucalanus bungii C-1         | 2                 | 512.0       | 33           | 725        | 0.5  |
| Thecosomata <5mm             | 2                 | 512.0       | 33           | 725        | 0.5  |
| Neocalanus cristatus C-4     | 98                | 8.0         | 25           | 555        | 0.4  |
| Euphausiacea - calyptopis 1  | 1                 | 512.0       | 16           | 363        | 0.3  |
| Eucalanus bungii C-3         | 1                 | 512.0       | 16           | 363        | 0.3  |
| Neocalanus plumchrus C-1     | 1                 | 512.0       | 16           | 363        | 0.3  |
| Calanus marshallae C-5       | 1                 | 512.0       | 16           | 363        | 0.3  |
| Gymnosomata <5mm             | 1                 | 512.0       | 16           | 363        | 0.3  |
| Bryozoa - cyphonautes <5mm   | 1                 | 512.0       | 16           | 363        | 0.3  |
| Other Copepoda 2-5mm         | 1                 | 512.0       | 16           | 363        | 0.3  |
| Euphausiacea - furcilia      | 1                 | 512.0       | 16           | 363        | 0.3  |
| Calanus marshallae C-3       | 1                 | 512.0       | 16           | 363        | 0.3  |
| Larvacea                     | 1                 | 512.0       | 16           | 363        | 0.3  |
| Calanus marshallae - adult F | 1                 | 512.0       | 16           | 363        | 0.3  |
| Gammaridea <5mm              | 1                 | 512.0       | 16           | 363        | 0.3  |
| Calanus pacificus C-5        | 1                 | 512.0       | 16           | 363        | 0.3  |
| Neocalanus cristatus C-5     | 61                | 8.0         | 16           | 346        | 0.3  |
| Chaetognatha 5-20mm          | 46                | 8.0         | 12           | 261        | 0.2  |
| Gammaridea >5mm              | 38                | 8.0         | 10           | 215        | 0.2  |
| Teleostei - larva >5mm       | 21                | 8.0         | 5            | 119        | 0.1  |
| Eucalanus bungii - adult F   | 20                | 8.0         | 5            | 113        | 0.1  |
| Mysidacea >5mm               | 15                | 8.0         | 4            | 85         | 0.1  |

|                                |    |     |       |        |       |
|--------------------------------|----|-----|-------|--------|-------|
| Other Copepoda >5mm            | 12 | 8.0 | 3     | 68     | 0.1   |
| Cnidaria - medusa >5mm         | 11 | 8.0 | 3     | 62     | < 0.1 |
| Thysanoessa spinifera A&J      | 10 | 8.0 | 3     | 57     | < 0.1 |
| Thysanoessa inermis A&J        | 8  | 8.0 | 2     | 45     | < 0.1 |
| Siphonophora >5mm              | 6  | 8.0 | 2     | 34     | < 0.1 |
| Hyperiididea >5mm              | 6  | 8.0 | 2     | 34     | < 0.1 |
| Polychaeta >5mm                | 4  | 8.0 | 1     | 23     | < 0.1 |
| Chaetognatha >20mm             | 2  | 8.0 | 1     | 11     | < 0.1 |
| Eucalanus bungii C-5 F         | 2  | 8.0 | 1     | 11     | < 0.1 |
| Neocalanus cristatus - adult F | 1  | 8.0 | < 1   | 6      | < 0.1 |
| Gymnosomata >5mm               | 1  | 8.0 | < 1   | 6      | < 0.1 |
| Neocalanus plumchrus - adult F | 1  | 8.0 | < 1   | 6      | < 0.1 |
|                                |    |     | ----- | -----  | ----- |
|                                |    |     | 6109  | 134401 | 100.  |

STA. G011A      57 30.0 N      155 00.0 W      03 May 85      11:10

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
238                              0 - 223                              317.0                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F | 58                | 256.0       | 468          | 10445      | 14.1  |
| Neocalanus plumchrus C-4     | 41                | 256.0       | 331          | 7384       | 10.0  |
| Metridia pacifica C-4        | 28                | 256.0       | 226          | 5042       | 6.8   |
| Neocalanus plumchrus C-3     | 26                | 256.0       | 210          | 4682       | 6.3   |
| Neocalanus plumchrus C-5     | 21                | 256.0       | 170          | 3782       | 5.1   |
| Pseudocalanus spp. - adult M | 20                | 256.0       | 162          | 3602       | 4.9   |
| Pseudocalanus spp. C-5 M     | 19                | 256.0       | 153          | 3422       | 4.6   |
| Metridia pacifica - adult M  | 19                | 256.0       | 153          | 3422       | 4.6   |
| Neocalanus plumchrus C-2     | 18                | 256.0       | 145          | 3242       | 4.4   |
| Pseudocalanus spp. C-5 F     | 17                | 256.0       | 137          | 3061       | 4.1   |
| Other Copepoda <2mm          | 17                | 256.0       | 137          | 3061       | 4.1   |
| Ostracoda <5mm               | 17                | 256.0       | 137          | 3061       | 4.1   |
| Metridia pacifica C-5 F      | 15                | 256.0       | 121          | 2701       | 3.6   |
| Metridia pacifica C-5 M      | 11                | 256.0       | 89           | 1981       | 2.7   |
| Metridia pacifica - adult F  | 11                | 256.0       | 89           | 1981       | 2.7   |
| Metriididae C-3              | 11                | 256.0       | 89           | 1981       | 2.7   |
| Calanus pacificus C-5        | 10                | 256.0       | 81           | 1801       | 2.4   |
| Acartia spp.                 | 8                 | 256.0       | 65           | 1441       | 1.9   |
| Oithona spp.                 | 7                 | 256.0       | 57           | 1261       | 1.7   |
| Mysidacea <5mm               | 4                 | 256.0       | 32           | 720        | 1.0   |
| Invertebrata - egg <5mm      | 3                 | 256.0       | 24           | 540        | 0.7   |
| Cirripedia - nauplius <5mm   | 3                 | 256.0       | 24           | 540        | 0.7   |
| Pseudocalanus spp. C-4 F     | 2                 | 256.0       | 16           | 360        | 0.5   |
| Siphonophora <5mm            | 2                 | 256.0       | 16           | 360        | 0.5   |
| Calanus marshallae C-5       | 2                 | 256.0       | 16           | 360        | 0.5   |
| Calanus marshallae - adult F | 2                 | 256.0       | 16           | 360        | 0.5   |
| Thecosomata <5mm             | 2                 | 256.0       | 16           | 360        | 0.5   |
| Calanus pacificus - adult F  | 2                 | 256.0       | 16           | 360        | 0.5   |
| Other Copepoda 2-5mm         | 2                 | 256.0       | 16           | 360        | 0.5   |
| Neocalanus cristatus C-4     | 59                | 8.0         | 15           | 332        | 0.4   |
| Neocalanus cristatus C-5     | 52                | 8.0         | 13           | 293        | 0.4   |
| Chaetognatha 5-20mm          | 44                | 8.0         | 11           | 248        | 0.3   |
| Other Copepoda - nauplius    | 1                 | 256.0       | 8            | 180        | 0.2   |
| Larvacea                     | 1                 | 256.0       | 8            | 180        | 0.2   |
| Calanus marshallae C-4       | 1                 | 256.0       | 8            | 180        | 0.2   |
| ?Pseudocalanus spp. C-3      | 1                 | 256.0       | 8            | 180        | 0.2   |
| Eucalanus bungii C-1         | 1                 | 256.0       | 8            | 180        | 0.2   |
| Cnidaria - medusa >5mm       | 26                | 8.0         | 7            | 146        | 0.2   |
| Gammaridea >5mm              | 25                | 8.0         | 6            | 141        | 0.2   |
| Other Copepoda >5mm          | 16                | 8.0         | 4            | 90         | 0.1   |
| Thysanoessa inermis A&J      | 11                | 8.0         | 3            | 62         | 0.1   |
| Eucalanus bungii - adult F   | 8                 | 8.0         | 2            | 45         | 0.1   |
| Siphonophora >5mm            | 7                 | 8.0         | 2            | 39         | 0.1   |
| Mysidacea >5mm               | 6                 | 8.0         | 2            | 34         | < 0.1 |
| Teleostei - larva >5mm       | 5                 | 8.0         | 1            | 28         | < 0.1 |
| Hyperiididae >5mm            | 3                 | 8.0         | 1            | 17         | < 0.1 |

|                                |   |       |       |       |       |
|--------------------------------|---|-------|-------|-------|-------|
| Neocalanus plumchrus - adult F | 2 | 8.0   | 1     | 11    | < 0.1 |
| Polychaeta >5mm                | 2 | 8.0   | 1     | 11    | < 0.1 |
| Eucalanus bungii C-5 F         | 2 | 8.0   | 1     | 11    | < 0.1 |
| Eucalanus bungii - adult M     | 1 | 8.0   | < 1   | 6     | < 0.1 |
| Chaetognatha >20mm             | 1 | 8.0   | < 1   | 6     | < 0.1 |
| Thysanoessa longipes A&J       | 1 | 8.0   | < 1   | 6     | < 0.1 |
| Gymnosomata >5mm               | 1 | 8.0   | < 1   | 6     | < 0.1 |
| Thysanoessa spinifera A&J      | 1 | 8.0   | < 1   | 6     | < 0.1 |
| Eucalanus bungii C-5 M         | 1 | 8.0   | < 1   | 6     | < 0.1 |
|                                |   | ----- | ----- | ----- |       |
|                                |   | 3324  | 74117 | 100.  |       |

STA. G012A      57 26.4 N      154 53.0 W      03 May 85      12:09

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
222                      0 - 206                  274.4                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Neocalanus plumchrus C-4     | 117               | 128.0       | 546          | 11244      | 14.7 |
| Metridia pacifica - adult M  | 78                | 128.0       | 364          | 7496       | 9.8  |
| Pseudocalanus spp. - adult F | 75                | 128.0       | 350          | 7208       | 9.4  |
| Neocalanus plumchrus C-5     | 58                | 128.0       | 271          | 5574       | 7.3  |
| Metridia pacifica C-4        | 52                | 128.0       | 243          | 4997       | 6.5  |
| Pseudocalanus spp. C-5 F     | 45                | 128.0       | 210          | 4325       | 5.6  |
| Neocalanus plumchrus C-3     | 39                | 128.0       | 182          | 3748       | 4.9  |
| Metridia pacifica - adult F  | 38                | 128.0       | 177          | 3652       | 4.8  |
| Pseudocalanus spp. - adult M | 35                | 128.0       | 163          | 3364       | 4.4  |
| Pseudocalanus spp. C-5 M     | 34                | 128.0       | 159          | 3267       | 4.3  |
| Metridia pacifica C-5 F      | 27                | 128.0       | 126          | 2595       | 3.4  |
| Metridia pacifica C-5 M      | 24                | 128.0       | 112          | 2306       | 3.0  |
| Neocalanus plumchrus C-2     | 22                | 128.0       | 103          | 2114       | 2.8  |
| Cirripedia - nauplius <5mm   | 20                | 128.0       | 93           | 1922       | 2.5  |
| Other Copepoda <2mm          | 19                | 128.0       | 89           | 1826       | 2.4  |
| Metriididae C-3              | 15                | 128.0       | 70           | 1442       | 1.9  |
| Oithona spp.                 | 14                | 128.0       | 65           | 1345       | 1.8  |
| Acartia spp.                 | 37                | 25.6        | 35           | 711        | 0.9  |
| Thecosomata <5mm             | 34                | 25.6        | 32           | 653        | 0.9  |
| Other Copepoda 2-5mm         | 6                 | 128.0       | 28           | 577        | 0.8  |
| Ostracoda <5mm               | 24                | 25.6        | 22           | 461        | 0.6  |
| Neocalanus cristatus C-4     | 153               | 4.0         | 22           | 459        | 0.6  |
| Larvacea                     | 23                | 25.6        | 21           | 442        | 0.6  |
| Gammaridea <5mm              | 21                | 25.6        | 20           | 404        | 0.5  |
| Invertebrata - egg <5mm      | 20                | 25.6        | 19           | 384        | 0.5  |
| Eucalanus bungii C-1         | 17                | 25.6        | 16           | 327        | 0.4  |
| Neocalanus cristatus C-5     | 101               | 4.0         | 15           | 303        | 0.4  |
| Pseudocalanus spp. C-4 M     | 3                 | 128.0       | 14           | 288        | 0.4  |
| Chaetognatha 5-20mm          | 82                | 4.0         | 12           | 246        | 0.3  |
| Calanus marshallae - adult F | 10                | 25.6        | 9            | 192        | 0.3  |
| Pseudocalanus spp. C-4 F     | 2                 | 128.0       | 9            | 192        | 0.3  |
| Euphausiacea - calyptopis 2  | 10                | 25.6        | 9            | 192        | 0.3  |
| Calanus pacificus C-5        | 10                | 25.6        | 9            | 192        | 0.3  |
| Euphausiacea - calyptopis 1  | 9                 | 25.6        | 8            | 173        | 0.2  |
| Gammaridea >5mm              | 54                | 4.0         | 8            | 162        | 0.2  |
| Cnidaria - medusa >5mm       | 39                | 4.0         | 6            | 117        | 0.2  |
| Natantia - larva             | 6                 | 25.6        | 6            | 115        | 0.2  |
| Neocalanus plumchrus C-1     | 1                 | 128.0       | 5            | 96         | 0.1  |
| Eucalanus bungii C-2         | 5                 | 25.6        | 5            | 96         | 0.1  |
| Siphonophora <5mm            | 5                 | 25.6        | 5            | 96         | 0.1  |
| Mysidacea <5mm               | 5                 | 25.6        | 5            | 96         | 0.1  |
| Cirripedia - cypris <5mm     | 5                 | 25.6        | 5            | 96         | 0.1  |
| Chaetognatha <5mm            | 5                 | 25.6        | 5            | 96         | 0.1  |
| Hyperiididae <5mm            | 4                 | 25.6        | 4            | 77         | 0.1  |
| Gastropoda - veliger <5mm    | 4                 | 25.6        | 4            | 77         | 0.1  |
| Gymnosomata <5mm             | 4                 | 25.6        | 4            | 77         | 0.1  |



|                                |    |      |       |       |       |
|--------------------------------|----|------|-------|-------|-------|
| Teleostei - larva >5mm         | 20 | 4.0  | 3     | 60    | 0.1   |
| Teleostei - egg <5mm           | 3  | 25.6 | 3     | 58    | 0.1   |
| Euphausiacea - calytopis 3     | 3  | 25.6 | 3     | 58    | 0.1   |
| Bryozoa - cyphonautes <5mm     | 3  | 25.6 | 3     | 58    | 0.1   |
| Eucalanus bungii - adult F     | 15 | 4.0  | 2     | 45    | 0.1   |
| Siphonophora >5mm              | 15 | 4.0  | 2     | 45    | 0.1   |
| Thysanoessa inermis A&J        | 13 | 4.0  | 2     | 39    | 0.1   |
| Calanus pacificus - adult M    | 2  | 25.6 | 2     | 38    | 0.1   |
| Cnidaria - medusa <5mm         | 2  | 25.6 | 2     | 38    | 0.1   |
| Brachyura - larva              | 2  | 25.6 | 2     | 38    | 0.1   |
| Polychaeta <5mm                | 2  | 25.6 | 2     | 38    | 0.1   |
| Calanus marshallae C-4         | 2  | 25.6 | 2     | 38    | 0.1   |
| Other Copepoda >5mm            | 12 | 4.0  | 2     | 36    | < 0.1 |
| Chaetognatha >20mm             | 11 | 4.0  | 2     | 33    | < 0.1 |
| Thysanoessa spinifera A&J      | 7  | 4.0  | 1     | 21    | < 0.1 |
| Echinodermata - larva <5mm     | 1  | 25.6 | 1     | 19    | < 0.1 |
| Calanus marshallae C-5         | 1  | 25.6 | 1     | 19    | < 0.1 |
| Invertebrata <5mm              | 1  | 25.6 | 1     | 19    | < 0.1 |
| Calanus marshallae - adult M   | 1  | 25.6 | 1     | 19    | < 0.1 |
| Euphausiacea - furcilia        | 1  | 25.6 | 1     | 19    | < 0.1 |
| Polychaeta >5mm                | 5  | 4.0  | 1     | 15    | < 0.1 |
| Eucalanus bungii - adult M     | 3  | 4.0  | < 1   | 9     | < 0.1 |
| Hyperiididea >5mm              | 2  | 4.0  | < 1   | 6     | < 0.1 |
| Gymnosomata >5mm               | 1  | 4.0  | < 1   | 3     | < 0.1 |
| Mysidacea >5mm                 | 1  | 4.0  | < 1   | 3     | < 0.1 |
| Thysanoessa raschii A&J        | 1  | 4.0  | < 1   | 3     | < 0.1 |
| Neocalanus plumchrus - adult F | 1  | 4.0  | < 1   | 3     | < 0.1 |
| Eucalanus bungii C-5 F         | 1  | 4.0  | < 1   | 3     | < 0.1 |
| Thysanoessa longipes A&J       | 1  | 4.0  | < 1   | 3     | < 0.1 |
|                                |    |      | ----- | ----- | ----- |
|                                |    |      | 3719  | 76613 | 100.  |

STA. G018A      57 31.4 N      155 34.0 W      03 May 85      19:39

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
277                      0 - 254                  201.8                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-5     | 42                | 512.0       | 1066         | 27067      | 10.5  |
| Cirripedia - nauplius <5mm   | 38                | 512.0       | 964          | 24489      | 9.5   |
| Pseudocalanus spp. - adult F | 34                | 512.0       | 863          | 21912      | 8.5   |
| Neocalanus plumchrus C-4     | 31                | 512.0       | 787          | 19978      | 7.7   |
| Metridia pacifica - adult M  | 25                | 512.0       | 634          | 16111      | 6.2   |
| Pseudocalanus spp. C-5 F     | 24                | 512.0       | 609          | 15467      | 6.0   |
| Metridia pacifica C-4        | 23                | 512.0       | 584          | 14823      | 5.7   |
| Pseudocalanus spp. - adult M | 22                | 512.0       | 558          | 14178      | 5.5   |
| Metridia pacifica C-5 M      | 20                | 512.0       | 507          | 12889      | 5.0   |
| Pseudocalanus spp. C-5 M     | 15                | 512.0       | 381          | 9667       | 3.7   |
| Metridia pacifica - adult F  | 11                | 512.0       | 279          | 7089       | 2.7   |
| Thecosomata <5mm             | 10                | 512.0       | 254          | 6445       | 2.5   |
| Neocalanus plumchrus C-3     | 29                | 170.7       | 245          | 6231       | 2.4   |
| Euphausiacea - calyptopis 1  | 29                | 170.7       | 245          | 6231       | 2.4   |
| Oithona spp.                 | 28                | 170.7       | 237          | 6016       | 2.3   |
| Metriididae C-3              | 9                 | 512.0       | 228          | 5800       | 2.2   |
| Metridia pacifica C-5 F      | 9                 | 512.0       | 228          | 5800       | 2.2   |
| Larvacea                     | 8                 | 512.0       | 203          | 5156       | 2.0   |
| Acartia spp.                 | 23                | 170.7       | 195          | 4942       | 1.9   |
| Other Copepoda 2-5mm         | 6                 | 512.0       | 152          | 3867       | 1.5   |
| Euphausiacea - calyptopis 2  | 12                | 170.7       | 102          | 2578       | 1.0   |
| Pseudocalanus spp. C-4 M     | 4                 | 512.0       | 101          | 2578       | 1.0   |
| Euphausiacea - nauplius      | 10                | 170.7       | 85           | 2149       | 0.8   |
| Neocalanus plumchrus C-2     | 9                 | 170.7       | 76           | 1934       | 0.7   |
| Ostracoda <5mm               | 3                 | 512.0       | 76           | 1933       | 0.7   |
| Pseudocalanus spp. C-4 F     | 3                 | 512.0       | 76           | 1933       | 0.7   |
| Euphausiacea - calyptopis 3  | 6                 | 170.7       | 51           | 1289       | 0.5   |
| Cnidaria - medusa <5mm       | 2                 | 512.0       | 51           | 1289       | 0.5   |
| Eucalanus bungii C-1         | 4                 | 170.7       | 34           | 859        | 0.3   |
| Calanus marshallae C-2       | 4                 | 170.7       | 34           | 859        | 0.3   |
| Eucalanus bungii C-2         | 4                 | 170.7       | 34           | 859        | 0.3   |
| Neocalanus cristatus C-4     | 42                | 16.0        | 33           | 846        | 0.3   |
| Mysidacea <5mm               | 1                 | 512.0       | 25           | 644        | 0.2   |
| Cirripedia - cypris <5mm     | 1                 | 512.0       | 25           | 644        | 0.2   |
| Calanus marshallae - adult F | 1                 | 512.0       | 25           | 644        | 0.2   |
| Hyperiididae <5mm            | 1                 | 512.0       | 25           | 644        | 0.2   |
| Euphausiacea - furcilia      | 2                 | 170.7       | 17           | 430        | 0.2   |
| Calanus marshallae C-1       | 2                 | 170.7       | 17           | 430        | 0.2   |
| Calanus marshallae C-3       | 2                 | 170.7       | 17           | 430        | 0.2   |
| Chaetognatha >20mm           | 17                | 16.0        | 13           | 342        | 0.1   |
| Neocalanus cristatus C-5     | 16                | 16.0        | 13           | 322        | 0.1   |
| Gammaridea >5mm              | 11                | 16.0        | 9            | 222        | 0.1   |
| Calanus pacificus C-5        | 1                 | 170.7       | 8            | 215        | 0.1   |
| Chaetognatha 5-20mm          | 10                | 16.0        | 8            | 201        | 0.1   |
| Eucalanus bungii - adult F   | 6                 | 16.0        | 5            | 121        | < 0.1 |
| Cnidaria - medusa >5mm       | 5                 | 16.0        | 4            | 101        | < 0.1 |

|                           |   |       |        |       |       |
|---------------------------|---|-------|--------|-------|-------|
| Thysanoessa inermis A&J   | 2 | 16.0  | 2      | 40    | < 0.1 |
| Thysanoessa raschii A&J   | 1 | 16.0  | 1      | 20    | < 0.1 |
| Siphonophora >5mm         | 1 | 16.0  | 1      | 20    | < 0.1 |
| Thysanoessa spinifera A&J | 1 | 16.0  | 1      | 20    | < 0.1 |
|                           |   | ----- | -----  | ----- |       |
|                           |   | 10187 | 258757 | 100.  |       |

STA. G020A      57 26.1 N      155 20.0 W      03 May 85      23:00

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
268                                  0 - 239                                  323.3                                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 60                | 512.0       | 950          | 22712      | 15.9  |
| Neocalanus plumchrus C-5     | 40                | 512.0       | 634          | 15141      | 10.6  |
| Pseudocalanus spp. - adult F | 40                | 512.0       | 634          | 15141      | 10.6  |
| Metridia pacifica - adult F  | 28                | 512.0       | 443          | 10599      | 7.4   |
| Metridia pacifica C-4        | 24                | 512.0       | 380          | 9085       | 6.4   |
| Neocalanus plumchrus C-3     | 19                | 512.0       | 301          | 7192       | 5.0   |
| Pseudocalanus spp. - adult M | 18                | 512.0       | 285          | 6814       | 4.8   |
| Metridia pacifica - adult M  | 16                | 512.0       | 253          | 6057       | 4.3   |
| Metridia pacifica C-5 M      | 16                | 512.0       | 253          | 6057       | 4.3   |
| Pseudocalanus spp. C-5 M     | 15                | 512.0       | 238          | 5678       | 4.0   |
| Metridia pacifica C-5 F      | 14                | 512.0       | 222          | 5299       | 3.7   |
| Neocalanus plumchrus C-2     | 12                | 512.0       | 190          | 4542       | 3.2   |
| Pseudocalanus spp. C-5 F     | 12                | 512.0       | 190          | 4542       | 3.2   |
| Other Copepoda <2mm          | 9                 | 512.0       | 143          | 3407       | 2.4   |
| Acartia spp.                 | 123               | 30.1        | 115          | 2737       | 1.9   |
| Metriididae C-3              | 7                 | 512.0       | 111          | 2650       | 1.9   |
| Ostracoda <5mm               | 5                 | 512.0       | 79           | 1893       | 1.3   |
| Oithona spp.                 | 78                | 30.1        | 73           | 1736       | 1.2   |
| Cirripecta - nauplius <5mm   | 3                 | 512.0       | 48           | 1136       | 0.8   |
| Cnidaria - medusa <5mm       | 3                 | 512.0       | 48           | 1136       | 0.8   |
| Pseudocalanus spp. C-4 F     | 3                 | 512.0       | 48           | 1136       | 0.8   |
| Neocalanus plumchrus C-1     | 3                 | 512.0       | 48           | 1136       | 0.8   |
| Mysidacea <5mm               | 2                 | 512.0       | 32           | 757        | 0.5   |
| Other Copepoda 2-5mm         | 2                 | 512.0       | 32           | 757        | 0.5   |
| Calanus pacificus C-5        | 25                | 30.1        | 23           | 556        | 0.4   |
| Neocalanus cristatus C-4     | 39                | 16.0        | 19           | 461        | 0.3   |
| Calanus marshallae C-2       | 1                 | 512.0       | 16           | 379        | 0.3   |
| Thecosomata <5mm             | 1                 | 512.0       | 16           | 379        | 0.3   |
| Chaetognatha <5mm            | 1                 | 512.0       | 16           | 379        | 0.3   |
| Calanus marshallae C-1       | 1                 | 512.0       | 16           | 379        | 0.3   |
| Cirripecta - cypris <5mm     | 1                 | 512.0       | 16           | 379        | 0.3   |
| Calanus marshallae C-3       | 1                 | 512.0       | 16           | 379        | 0.3   |
| Larvacea                     | 1                 | 512.0       | 16           | 379        | 0.3   |
| Chaetognatha 5-20mm          | 23                | 16.0        | 11           | 272        | 0.2   |
| Neocalanus cristatus C-5     | 17                | 16.0        | 8            | 201        | 0.1   |
| Cnidaria - medusa >5mm       | 8                 | 16.0        | 4            | 95         | 0.1   |
| Eucalanus bungii C-2         | 4                 | 30.1        | 4            | 89         | 0.1   |
| Calanus marshallae C-5       | 4                 | 30.1        | 4            | 89         | 0.1   |
| Eucalanus bungii - adult F   | 6                 | 16.0        | 3            | 71         | < 0.1 |
| Calanus marshallae - adult M | 3                 | 30.1        | 3            | 67         | < 0.1 |
| Eucalanus bungii C-1         | 3                 | 30.1        | 3            | 67         | < 0.1 |
| Calanus marshallae - adult F | 3                 | 30.1        | 3            | 67         | < 0.1 |
| Gammaridea >5mm              | 5                 | 16.0        | 2            | 59         | < 0.1 |
| Euphausiacea - calyptopis 2  | 2                 | 30.1        | 2            | 45         | < 0.1 |
| Calanus pacificus - adult M  | 2                 | 30.1        | 2            | 45         | < 0.1 |
| Euphausiacea - calyptopis 1  | 2                 | 30.1        | 2            | 45         | < 0.1 |

|                             |   |       |        |       |       |
|-----------------------------|---|-------|--------|-------|-------|
| Calanus pacificus - adult F | 2 | 30.1  | 2      | 45    | < 0.1 |
| Other Copepoda >5mm         | 3 | 16.0  | 1      | 35    | < 0.1 |
| Chaetognatha >20mm          | 3 | 16.0  | 1      | 35    | < 0.1 |
| Mysidacea >5mm              | 2 | 16.0  | 1      | 24    | < 0.1 |
| Siphonophora >5mm           | 2 | 16.0  | 1      | 24    | < 0.1 |
| Calanus marshallae C-4      | 1 | 30.1  | 1      | 22    | < 0.1 |
| Eucalanus bungii C-4 F      | 1 | 30.1  | 1      | 22    | < 0.1 |
| Euphausiacea - nauplius     | 1 | 30.1  | 1      | 22    | < 0.1 |
| Ctenophora >5mm             | 1 | 16.0  | < 1    | 12    | < 0.1 |
|                             |   | ----- | -----  | ----- |       |
|                             |   | 5961  | 142456 |       | 100.  |

STA. G021A    57 22.7 N    155 12.0 W    04 May 85    1:03

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
249                              0 - 222                              297.0                              333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|--------------------------------|-------------------|-------------|--------------|------------|-------|
| Metridia pacifica C-4          | 36                | 256.0       | 310          | 6889       | 10.6  |
| Neocalanus plumchrus C-5       | 34                | 256.0       | 293          | 6506       | 10.0  |
| Pseudocalanus spp. - adult F   | 34                | 256.0       | 293          | 6506       | 10.0  |
| Metridia pacifica - adult M    | 31                | 256.0       | 267          | 5932       | 9.1   |
| Neocalanus plumchrus C-4       | 28                | 256.0       | 241          | 5358       | 8.2   |
| Metridia pacifica C-5 M        | 23                | 256.0       | 198          | 4401       | 6.7   |
| Neocalanus plumchrus C-3       | 22                | 256.0       | 190          | 4210       | 6.4   |
| Metridia pacifica C-5 F        | 21                | 256.0       | 181          | 4019       | 6.2   |
| Metridia pacifica - adult F    | 15                | 256.0       | 129          | 2870       | 4.4   |
| Acartia spp.                   | 14                | 256.0       | 121          | 2679       | 4.1   |
| Pseudocalanus spp. - adult M   | 12                | 256.0       | 103          | 2296       | 3.5   |
| Oithona spp.                   | 11                | 256.0       | 95           | 2105       | 3.2   |
| Metriididae C-3                | 11                | 256.0       | 95           | 2105       | 3.2   |
| Other Copepoda <2mm            | 9                 | 256.0       | 78           | 1722       | 2.6   |
| Neocalanus plumchrus C-2       | 7                 | 256.0       | 60           | 1340       | 2.1   |
| Thecosomata <5mm               | 5                 | 256.0       | 43           | 957        | 1.5   |
| Cirripedia - nauplius <5mm     | 5                 | 256.0       | 43           | 957        | 1.5   |
| Neocalanus cristatus C-5       | 65                | 16.0        | 35           | 777        | 1.2   |
| Pseudocalanus spp. C-5 F       | 4                 | 256.0       | 34           | 765        | 1.2   |
| Calanus pacificus C-5          | 46                | 19.7        | 31           | 677        | 1.0   |
| Chaetognatha 5-20mm            | 26                | 16.0        | 14           | 311        | 0.5   |
| Neocalanus cristatus C-4       | 23                | 16.0        | 12           | 275        | 0.4   |
| Euphausiacea - calyptopis 2    | 1                 | 256.0       | 9            | 191        | 0.3   |
| Pseudocalanus spp. C-5 M       | 1                 | 256.0       | 9            | 191        | 0.3   |
| Gammaridea <5mm                | 1                 | 256.0       | 9            | 191        | 0.3   |
| Neocalanus plumchrus C-1       | 1                 | 256.0       | 9            | 191        | 0.3   |
| Ostracoda <5mm                 | 1                 | 256.0       | 9            | 191        | 0.3   |
| Calanus marshallae C-3         | 1                 | 256.0       | 9            | 191        | 0.3   |
| Other Copepoda 2-5mm           | 1                 | 256.0       | 9            | 191        | 0.3   |
| Chaetognatha >20mm             | 7                 | 16.0        | 4            | 84         | 0.1   |
| Calanus marshallae C-4         | 4                 | 19.7        | 3            | 59         | 0.1   |
| Calanus marshallae - adult M   | 3                 | 19.7        | 2            | 44         | 0.1   |
| Eucalanus bungii - adult F     | 3                 | 16.0        | 2            | 36         | 0.1   |
| Calanus pacificus - adult F    | 1                 | 19.7        | 1            | 15         | < 0.1 |
| Calanus marshallae - adult F   | 1                 | 19.7        | 1            | 15         | < 0.1 |
| Calanus pacificus - adult M    | 1                 | 19.7        | 1            | 15         | < 0.1 |
| Gammaridea >5mm                | 1                 | 16.0        | 1            | 12         | < 0.1 |
| Neocalanus cristatus - adult F | 1                 | 16.0        | 1            | 12         | < 0.1 |
|                                |                   |             | 2941         | 65290      | 100.  |

STA. G023A      57 16.9 N      154 58.0 W      04 May 85      3:44

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
200                      0 - 182                      212.3                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Metridia pacifica C-4        | 47                | 256.0       | 567          | 10312      | 15.9  |
| Neocalanus plumchrus C-5     | 44                | 256.0       | 530          | 9654       | 14.8  |
| Pseudocalanus spp. - adult F | 41                | 256.0       | 494          | 8996       | 13.8  |
| Neocalanus plumchrus C-4     | 32                | 256.0       | 386          | 7021       | 10.8  |
| Metridia pacifica C-5 M      | 23                | 256.0       | 277          | 5046       | 7.8   |
| Other Copepoda <2mm          | 17                | 256.0       | 205          | 3730       | 5.7   |
| Metridia pacifica C-5 F      | 16                | 256.0       | 193          | 3511       | 5.4   |
| Cirripedia - nauplius <5mm   | 11                | 256.0       | 133          | 2414       | 3.7   |
| Pseudocalanus spp. C-5 M     | 11                | 256.0       | 133          | 2414       | 3.7   |
| Pseudocalanus spp. - adult M | 10                | 256.0       | 121          | 2194       | 3.4   |
| Pseudocalanus spp. C-5 F     | 8                 | 256.0       | 96           | 1755       | 2.7   |
| Metriididae C-3              | 7                 | 256.0       | 84           | 1536       | 2.4   |
| Thecosomata <5mm             | 3                 | 256.0       | 36           | 658        | 1.0   |
| Pseudocalanus spp. C-4 F     | 3                 | 256.0       | 36           | 658        | 1.0   |
| Metridia pacifica - adult M  | 3                 | 256.0       | 36           | 658        | 1.0   |
| Oithona spp.                 | 47                | 15.1        | 33           | 608        | 0.9   |
| Neocalanus cristatus C-4     | 76                | 8.0         | 29           | 521        | 0.8   |
| Metridia pacifica - adult F  | 2                 | 256.0       | 24           | 439        | 0.7   |
| Neocalanus cristatus C-3     | 33                | 15.1        | 23           | 427        | 0.7   |
| Chaetognatha 5-20mm          | 43                | 8.0         | 16           | 295        | 0.5   |
| Other Copepoda 2-5mm         | 1                 | 256.0       | 12           | 219        | 0.3   |
| Gastropoda <5mm              | 1                 | 256.0       | 12           | 219        | 0.3   |
| Euphausiacea - furcilia      | 1                 | 256.0       | 12           | 219        | 0.3   |
| Pseudocalanus spp. C-4 M     | 1                 | 256.0       | 12           | 219        | 0.3   |
| Larvacea                     | 1                 | 256.0       | 12           | 219        | 0.3   |
| Euphausiacea - calyptopis 2  | 1                 | 256.0       | 12           | 219        | 0.3   |
| Acartia spp.                 | 16                | 15.1        | 11           | 207        | 0.3   |
| Neocalanus cristatus C-2     | 15                | 15.1        | 11           | 194        | 0.3   |
| Eucalanus bungii C-1         | 11                | 15.1        | 8            | 142        | 0.2   |
| Neocalanus cristatus C-5     | 6                 | 8.0         | 2            | 41         | 0.1   |
| Euphausia pacifica A&J       | 6                 | 8.0         | 2            | 41         | 0.1   |
| Eucalanus bungii C-2         | 3                 | 15.1        | 2            | 39         | 0.1   |
| Eucalanus bungii - adult F   | 5                 | 8.0         | 2            | 34         | 0.1   |
| Thysanoessa inermis A&J      | 4                 | 8.0         | 2            | 27         | < 0.1 |
| Cnidaria - medusa >5mm       | 4                 | 8.0         | 2            | 27         | < 0.1 |
| Eucalanus bungii C-3         | 2                 | 15.1        | 1            | 26         | < 0.1 |
| Eucalanus bungii C-5 F       | 3                 | 8.0         | 1            | 21         | < 0.1 |
| Eucalanus bungii C-4 M       | 1                 | 15.1        | 1            | 13         | < 0.1 |
| Mysidacea >5mm               | 1                 | 8.0         | < 1          | 7          | < 0.1 |
| Thysanoessa spinifera A&J    | 1                 | 8.0         | < 1          | 7          | < 0.1 |
| Eucalanus bungii C-5 M       | 1                 | 8.0         | < 1          | 7          | < 0.1 |
| Gymnosomata >5mm             | 1                 | 8.0         | < 1          | 7          | < 0.1 |
| Siphonophora >5mm            | 1                 | 8.0         | < 1          | 7          | < 0.1 |
| Chaetognatha >20mm           | 1                 | 8.0         | < 1          | 7          | < 0.1 |
|                              |                   |             | 3572         | 65018      | 100.  |

STA. G039A      56 57.3 N      155 01.0 W      04 May 85      21:34

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
94                              0 - 83                              126.6                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 128               | 128.0       | 1294         | 10738      | 17.5  |
| Pseudocalanus spp. - adult F | 109               | 128.0       | 1102         | 9144       | 14.9  |
| Pseudocalanus spp. C-5 M     | 70                | 128.0       | 707          | 5872       | 9.5   |
| Pseudocalanus spp. C-5 F     | 53                | 128.0       | 536          | 4446       | 7.2   |
| Neocalanus plumchrus C-3     | 52                | 128.0       | 526          | 4362       | 7.1   |
| Neocalanus plumchrus C-5     | 51                | 128.0       | 515          | 4278       | 7.0   |
| Pseudocalanus spp. - adult M | 32                | 128.0       | 323          | 2684       | 4.4   |
| Neocalanus plumchrus C-2     | 28                | 128.0       | 283          | 2349       | 3.8   |
| Cirripedia - nauplius <5mm   | 26                | 128.0       | 263          | 2181       | 3.5   |
| Metridia pacifica C-4        | 26                | 128.0       | 263          | 2181       | 3.5   |
| Acartia spp.                 | 17                | 128.0       | 172          | 1426       | 2.3   |
| Metridia pacifica C-5 M      | 16                | 128.0       | 162          | 1342       | 2.2   |
| Metridia pacifica C-5 F      | 15                | 128.0       | 152          | 1258       | 2.0   |
| Pseudocalanus spp. C-4 F     | 13                | 128.0       | 131          | 1091       | 1.8   |
| Euphausiacea - calyptopis 2  | 62                | 25.6        | 125          | 1040       | 1.7   |
| Metriididae C-3              | 11                | 128.0       | 111          | 923        | 1.5   |
| Pseudocalanus spp. C-4 M     | 11                | 128.0       | 111          | 923        | 1.5   |
| Other Copepoda <2mm          | 9                 | 128.0       | 91           | 755        | 1.2   |
| Thecosomata <5mm             | 8                 | 128.0       | 81           | 671        | 1.1   |
| Eucalanus bungii C-1         | 31                | 25.6        | 63           | 520        | 0.8   |
| Metridia pacifica - adult F  | 6                 | 128.0       | 61           | 503        | 0.8   |
| Oithona spp.                 | 6                 | 128.0       | 61           | 503        | 0.8   |
| Neocalanus cristatus C-4     | 65                | 8.0         | 41           | 341        | 0.6   |
| Natantia - larva             | 3                 | 128.0       | 30           | 252        | 0.4   |
| Chaetognatha 5-20mm          | 41                | 8.0         | 26           | 215        | 0.3   |
| Larvacea                     | 2                 | 128.0       | 20           | 168        | 0.3   |
| Neocalanus plumchrus C-1     | 2                 | 128.0       | 20           | 168        | 0.3   |
| ?Pseudocalanus spp. C-3      | 2                 | 128.0       | 20           | 168        | 0.3   |
| Siphonophora <5mm            | 2                 | 128.0       | 20           | 168        | 0.3   |
| Euphausiacea - calyptopis 3  | 10                | 25.6        | 20           | 168        | 0.3   |
| Neocalanus cristatus C-5     | 24                | 8.0         | 15           | 126        | 0.2   |
| Metriididae C-2              | 1                 | 128.0       | 10           | 84         | 0.1   |
| Calanus pacificus C-5        | 1                 | 128.0       | 10           | 84         | 0.1   |
| Calanus marshallae C-2       | 1                 | 128.0       | 10           | 84         | 0.1   |
| Calanus pacificus - adult F  | 1                 | 128.0       | 10           | 84         | 0.1   |
| Eucalanus bungii - adult F   | 10                | 8.0         | 6            | 52         | 0.1   |
| Euphausiacea - nauplius      | 3                 | 25.6        | 6            | 50         | 0.1   |
| Euphausiacea - calyptopis 1  | 2                 | 25.6        | 4            | 34         | 0.1   |
| Eucalanus bungii C-2         | 2                 | 25.6        | 4            | 34         | 0.1   |
| Euphausiacea - furcilia      | 1                 | 25.6        | 2            | 17         | < 0.1 |
| Eucalanus bungii C-5 F       | 2                 | 8.0         | 1            | 10         | < 0.1 |
| Thysanoessa inermis A&J      | 1                 | 8.0         | 1            | 5          | < 0.1 |
| Eucalanus bungii C-5 M       | 1                 | 8.0         | 1            | 5          | < 0.1 |
| Chaetognatha >20mm           | 1                 | 8.0         | 1            | 5          | < 0.1 |
|                              |                   |             | 7411         | 61512      | 100.  |



STA. G041A      57 02.2 N      155 12.0 W      05 May 85      0:37

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
245                              0 - 209                              263.9                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Metridia pacifica C-4        | 39                | 256.0       | 378          | 7906       | 10.8 |
| Neocalanus plumchrus C-5     | 30                | 256.0       | 291          | 6082       | 8.3  |
| Neocalanus plumchrus C-4     | 29                | 256.0       | 281          | 5879       | 8.0  |
| Metriididae C-3              | 24                | 256.0       | 233          | 4866       | 6.7  |
| Pseudocalanus spp. - adult F | 23                | 256.0       | 223          | 4663       | 6.4  |
| Metridia pacifica - adult F  | 23                | 256.0       | 223          | 4663       | 6.4  |
| Metridia pacifica C-5 M      | 17                | 256.0       | 165          | 3446       | 4.7  |
| Metridia pacifica C-5 F      | 17                | 256.0       | 165          | 3446       | 4.7  |
| Other Copepoda <2mm          | 17                | 256.0       | 165          | 3446       | 4.7  |
| Ostracoda <5mm               | 17                | 256.0       | 165          | 3446       | 4.7  |
| Pseudocalanus spp. C-5 F     | 16                | 256.0       | 155          | 3244       | 4.4  |
| Metridia pacifica - adult M  | 13                | 256.0       | 126          | 2635       | 3.6  |
| Pseudocalanus spp. - adult M | 12                | 256.0       | 116          | 2433       | 3.3  |
| Oithona spp.                 | 33                | 85.3        | 107          | 2229       | 3.0  |
| Neocalanus plumchrus C-2     | 28                | 85.3        | 90           | 1891       | 2.6  |
| Pseudocalanus spp. C-5 M     | 8                 | 256.0       | 78           | 1622       | 2.2  |
| Neocalanus plumchrus C-3     | 21                | 85.3        | 68           | 1419       | 1.9  |
| Cirripedia - nauplius <5mm   | 6                 | 256.0       | 58           | 1216       | 1.7  |
| Calanus pacificus C-5        | 18                | 85.3        | 58           | 1216       | 1.7  |
| Thecosomata <5mm             | 5                 | 256.0       | 48           | 1014       | 1.4  |
| Other Copepoda 2-5mm         | 3                 | 256.0       | 29           | 608        | 0.8  |
| Euphausiacea - calyptopis 1  | 9                 | 85.3        | 29           | 608        | 0.8  |
| Acartia spp.                 | 8                 | 85.3        | 26           | 540        | 0.7  |
| Hyperiididae <5mm            | 2                 | 256.0       | 19           | 405        | 0.6  |
| Gammaridea <5mm              | 2                 | 256.0       | 19           | 405        | 0.6  |
| Mysidacea <5mm               | 2                 | 256.0       | 19           | 405        | 0.6  |
| Chaetognatha 5-20mm          | 21                | 16.0        | 13           | 266        | 0.4  |
| Neocalanus cristatus C-5     | 20                | 16.0        | 12           | 253        | 0.3  |
| Thysanoessa inermis A&J      | 18                | 16.0        | 11           | 228        | 0.3  |
| Pseudocalanus spp. C-4 F     | 1                 | 256.0       | 10           | 203        | 0.3  |
| ?Pseudocalanus spp. C-3      | 1                 | 256.0       | 10           | 203        | 0.3  |
| Pseudocalanus spp. C-4 M     | 1                 | 256.0       | 10           | 203        | 0.3  |
| Calanus marshallae - adult M | 3                 | 85.3        | 10           | 203        | 0.3  |
| Euphausiacea - calyptopis 2  | 3                 | 85.3        | 10           | 203        | 0.3  |
| Neocalanus cristatus C-4     | 14                | 16.0        | 8            | 177        | 0.2  |
| Gammaridea >5mm              | 11                | 16.0        | 7            | 139        | 0.2  |
| Eucalanus bungii C-2         | 2                 | 85.3        | 6            | 135        | 0.2  |
| Neocalanus plumchrus C-1     | 2                 | 85.3        | 6            | 135        | 0.2  |
| Calanus marshallae C-5       | 2                 | 85.3        | 6            | 135        | 0.2  |
| Euphausiacea - nauplius      | 2                 | 85.3        | 6            | 135        | 0.2  |
| Eucalanus bungii C-1         | 2                 | 85.3        | 6            | 135        | 0.2  |
| Eucalanus bungii - adult F   | 6                 | 16.0        | 4            | 76         | 0.1  |
| Cnidaria - medusa >5mm       | 6                 | 16.0        | 4            | 76         | 0.1  |
| Calanus pacificus - adult F  | 1                 | 85.3        | 3            | 68         | 0.1  |
| Neocalanus cristatus C-3     | 1                 | 85.3        | 3            | 68         | 0.1  |
| Calanus marshallae C-2       | 1                 | 85.3        | 3            | 68         | 0.1  |

|                              |   |      |       |       |       |
|------------------------------|---|------|-------|-------|-------|
| Calanus marshallae - adult F | 1 | 85.3 | 3     | 68    | 0.1   |
| Chaetognatha >20mm           | 5 | 16.0 | 3     | 63    | 0.1   |
| Siphonophora >5mm            | 3 | 16.0 | 2     | 38    | 0.1   |
| Other Copepoda >5mm          | 2 | 16.0 | 1     | 25    | < 0.1 |
| Mysidacea >5mm               | 1 | 16.0 | 1     | 13    | < 0.1 |
| Eucalanus bungii - adult M   | 1 | 16.0 | 1     | 13    | < 0.1 |
| Hyperiididea >5mm            | 1 | 16.0 | 1     | 13    | < 0.1 |
| Polychaeta >5mm              | 1 | 16.0 | 1     | 13    | < 0.1 |
| Euphausia pacifica A&J       | 1 | 16.0 | 1     | 13    | < 0.1 |
|                              |   |      | ----- | ----- | ----- |
|                              |   |      | 3498  | 73101 | 100.  |

STA. G058A      56 48.2 N      155 08.0 W      06 May 85      3:32

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH

93                      0 - 83                  119.7                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 87                | 128.0       | 931          | 7725       | 17.8  |
| Pseudocalanus spp. - adult F | 78                | 128.0       | 834          | 6926       | 16.0  |
| Neocalanus plumchrus C-5     | 59                | 128.0       | 631          | 5239       | 12.1  |
| Pseudocalanus spp. C-5 M     | 54                | 128.0       | 578          | 4795       | 11.0  |
| Pseudocalanus spp. C-5 F     | 48                | 128.0       | 513          | 4262       | 9.8   |
| Neocalanus plumchrus C-3     | 40                | 128.0       | 428          | 3552       | 8.2   |
| Pseudocalanus spp. - adult M | 20                | 128.0       | 214          | 1776       | 4.1   |
| Metridia pacifica C-5 M      | 16                | 128.0       | 171          | 1421       | 3.3   |
| Metridia pacifica - adult F  | 14                | 128.0       | 150          | 1243       | 2.9   |
| Pseudocalanus spp. C-4 F     | 13                | 128.0       | 139          | 1154       | 2.7   |
| Metridia pacifica C-5 F      | 12                | 128.0       | 128          | 1065       | 2.5   |
| Neocalanus plumchrus C-2     | 8                 | 128.0       | 86           | 710        | 1.6   |
| Other Copepoda <2mm          | 6                 | 128.0       | 64           | 533        | 1.2   |
| Pseudocalanus spp. C-4 M     | 5                 | 128.0       | 53           | 444        | 1.0   |
| Metridia pacifica C-4        | 5                 | 128.0       | 53           | 444        | 1.0   |
| Cirripedia - nauplius <5mm   | 5                 | 128.0       | 53           | 444        | 1.0   |
| Thecosomata <5mm             | 3                 | 128.0       | 32           | 266        | 0.6   |
| Neocalanus cristatus C-5     | 63                | 4.0         | 21           | 175        | 0.4   |
| Calanus marshallae - adult F | 20                | 7.5         | 13           | 104        | 0.2   |
| Gastropoda <5mm              | 1                 | 128.0       | 11           | 89         | 0.2   |
| Neocalanus plumchrus C-1     | 1                 | 128.0       | 11           | 89         | 0.2   |
| Metriididae C-3              | 1                 | 128.0       | 11           | 89         | 0.2   |
| Calanus marshallae C-2       | 1                 | 128.0       | 11           | 89         | 0.2   |
| Calanus marshallae C-3       | 1                 | 128.0       | 11           | 89         | 0.2   |
| Metriididae C-2              | 1                 | 128.0       | 11           | 89         | 0.2   |
| Hyperiididae <5mm            | 1                 | 128.0       | 11           | 89         | 0.2   |
| Acartia spp.                 | 16                | 7.5         | 10           | 83         | 0.2   |
| Calanus marshallae C-5       | 12                | 7.5         | 8            | 62         | 0.1   |
| Chaetognatha 5-20mm          | 19                | 4.0         | 6            | 53         | 0.1   |
| Neocalanus cristatus C-4     | 18                | 4.0         | 6            | 50         | 0.1   |
| Euphausiacea - calyptopis 1  | 8                 | 7.5         | 5            | 42         | 0.1   |
| Oithona spp.                 | 6                 | 7.5         | 4            | 31         | 0.1   |
| Euphausiacea - calyptopis 2  | 6                 | 7.5         | 4            | 31         | 0.1   |
| Eucalanus bungii C-1         | 6                 | 7.5         | 4            | 31         | 0.1   |
| Calanus marshallae - adult M | 4                 | 7.5         | 3            | 21         | < 0.1 |
| Eucalanus bungii - adult F   | 6                 | 4.0         | 2            | 17         | < 0.1 |
| Calanus marshallae C-4       | 3                 | 7.5         | 2            | 16         | < 0.1 |
| Calanus pacificus - adult M  | 3                 | 7.5         | 2            | 16         | < 0.1 |
| Calanus pacificus C-5        | 3                 | 7.5         | 2            | 16         | < 0.1 |
| Calanus pacificus - adult F  | 3                 | 7.5         | 2            | 16         | < 0.1 |
| Eucalanus bungii C-5 F       | 4                 | 4.0         | 1            | 11         | < 0.1 |
| Cnidaria - medusa >5mm       | 2                 | 4.0         | 1            | 6          | < 0.1 |
| Euphausiacea - calyptopis 3  | 1                 | 7.5         | 1            | 5          | < 0.1 |
| Eucalanus bungii C-2         | 1                 | 7.5         | 1            | 5          | < 0.1 |
| Thysanoessa inermis A&J      | 1                 | 4.0         | < 1          | 3          | < 0.1 |

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| 5230  | 43411 | 100.  |

STA. G059A      56 51.3 N      155 15.0 W      06 May 85      4:26

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
209                      0 - 183                  243.7                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Metridia pacifica - adult M  | 56                | 128.0       | 294          | 5383       | 13.1  |
| Pseudocalanus spp. - adult F | 51                | 128.0       | 268          | 4903       | 11.9  |
| Metridia pacifica - adult F  | 42                | 128.0       | 221          | 4037       | 9.8   |
| Metridia pacifica C-4        | 34                | 128.0       | 179          | 3268       | 7.9   |
| Pseudocalanus spp. - adult M | 25                | 128.0       | 131          | 2403       | 5.8   |
| Neocalanus plumchrus C-3     | 22                | 128.0       | 116          | 2115       | 5.1   |
| Pseudocalanus spp. C-5 F     | 20                | 128.0       | 105          | 1923       | 4.7   |
| Other Copepoda <2mm          | 19                | 128.0       | 100          | 1826       | 4.4   |
| Metridia pacifica C-5 F      | 17                | 128.0       | 89           | 1634       | 4.0   |
| Metridia pacifica C-5 M      | 15                | 128.0       | 79           | 1442       | 3.5   |
| Oithona spp.                 | 67                | 25.6        | 70           | 1288       | 3.1   |
| Metriididae C-3              | 13                | 128.0       | 68           | 1250       | 3.0   |
| Neocalanus plumchrus C-4     | 87                | 16.0        | 57           | 1045       | 2.5   |
| Acartia spp.                 | 52                | 25.6        | 55           | 1000       | 2.4   |
| Neocalanus plumchrus C-2     | 10                | 128.0       | 53           | 961        | 2.3   |
| Pseudocalanus spp. C-5 M     | 9                 | 128.0       | 47           | 865        | 2.1   |
| Other Copepoda 2-5mm         | 9                 | 128.0       | 47           | 865        | 2.1   |
| Neocalanus plumchrus C-5     | 59                | 16.0        | 39           | 709        | 1.7   |
| Neocalanus cristatus C-4     | 56                | 16.0        | 37           | 673        | 1.6   |
| Pseudocalanus spp. C-4 F     | 7                 | 128.0       | 37           | 673        | 1.6   |
| Thecosomata <5mm             | 4                 | 128.0       | 21           | 385        | 0.9   |
| Neocalanus cristatus C-5     | 25                | 16.0        | 16           | 300        | 0.7   |
| Mysidacea <5mm               | 3                 | 128.0       | 16           | 288        | 0.7   |
| Calanus marshallae C-2       | 3                 | 128.0       | 16           | 288        | 0.7   |
| Calanus marshallae - adult F | 13                | 25.6        | 14           | 250        | 0.6   |
| Calanus marshallae C-3       | 2                 | 128.0       | 11           | 192        | 0.5   |
| Neocalanus plumchrus C-1     | 2                 | 128.0       | 11           | 192        | 0.5   |
| Chaetognatha 5-20mm          | 12                | 16.0        | 8            | 144        | 0.4   |
| Calanus pacificus C-5        | 6                 | 25.6        | 6            | 115        | 0.3   |
| Cnidaria - medusa <5mm       | 1                 | 128.0       | 5            | 96         | 0.2   |
| Natantia - larva             | 1                 | 128.0       | 5            | 96         | 0.2   |
| Eucalanus bungii C-4 M       | 1                 | 128.0       | 5            | 96         | 0.2   |
| Ostracoda <5mm               | 1                 | 128.0       | 5            | 96         | 0.2   |
| Eucalanus bungii - adult F   | 7                 | 16.0        | 5            | 84         | 0.2   |
| Calanus marshallae C-4       | 3                 | 25.6        | 3            | 58         | 0.1   |
| Calanus marshallae C-5       | 2                 | 25.6        | 2            | 38         | 0.1   |
| Calanus marshallae - adult M | 2                 | 25.6        | 2            | 38         | 0.1   |
| Cnidaria - medusa >5mm       | 3                 | 16.0        | 2            | 36         | 0.1   |
| Eucalanus bungii C-5 F       | 3                 | 16.0        | 2            | 36         | 0.1   |
| Calanus pacificus - adult M  | 1                 | 25.6        | 1            | 19         | < 0.1 |
| Thysanoessa inermis A&J      | 1                 | 16.0        | 1            | 12         | < 0.1 |
| Siphonophora <5mm            | 1                 | 16.0        | 1            | 12         | < 0.1 |
| Polychaeta >5mm              | 1                 | 16.0        | 1            | 12         | < 0.1 |
| Eucalanus bungii - adult M   | 1                 | 16.0        | 1            | 12         | < 0.1 |
| Chaetognatha >20mm           | 1                 | 16.0        | 1            | 12         | < 0.1 |

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| 2250  | 41174 | 100.  |

STA. G061A      56 57.5 N      155 30.0 W      06 May 85      7:00

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
275                      0 - 240                      306.0                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-5     | 39                | 256.0       | 326          | 7829       | 11.8  |
| Metridia pacifica - adult F  | 36                | 256.0       | 301          | 7227       | 10.9  |
| Pseudocalanus spp. - adult F | 26                | 256.0       | 217          | 5220       | 7.8   |
| Metridia pacifica C-4        | 26                | 256.0       | 217          | 5220       | 7.8   |
| Neocalanus plumchrus C-4     | 25                | 256.0       | 209          | 5019       | 7.5   |
| Metridia pacifica - adult M  | 21                | 256.0       | 176          | 4216       | 6.3   |
| Metridia pacifica C-5 M      | 20                | 256.0       | 167          | 4015       | 6.0   |
| Metridia pacifica C-5 F      | 19                | 256.0       | 159          | 3814       | 5.7   |
| Other Copepoda <2mm          | 15                | 256.0       | 125          | 3011       | 4.5   |
| Ostracoda <5mm               | 13                | 256.0       | 109          | 2610       | 3.9   |
| Pseudocalanus spp. C-5 F     | 12                | 256.0       | 100          | 2409       | 3.6   |
| Pseudocalanus spp. C-5 M     | 9                 | 256.0       | 75           | 1807       | 2.7   |
| Gammaridea <5mm              | 8                 | 256.0       | 67           | 1606       | 2.4   |
| Pseudocalanus spp. - adult M | 8                 | 256.0       | 67           | 1606       | 2.4   |
| Metriididae C-3              | 7                 | 256.0       | 59           | 1405       | 2.1   |
| Thecosomata <5mm             | 6                 | 256.0       | 50           | 1205       | 1.8   |
| Other Copepoda 2-5mm         | 5                 | 256.0       | 42           | 1004       | 1.5   |
| Euphausiacea - calyptopis 2  | 4                 | 256.0       | 33           | 803        | 1.2   |
| Oithona spp.                 | 35                | 28.4        | 32           | 779        | 1.2   |
| Acartia spp.                 | 31                | 28.4        | 29           | 690        | 1.0   |
| Neocalanus cristatus C-5     | 48                | 16.0        | 25           | 602        | 0.9   |
| Chaetognatha 5-20mm          | 33                | 16.0        | 17           | 414        | 0.6   |
| Pseudocalanus spp. C-4 F     | 2                 | 256.0       | 17           | 402        | 0.6   |
| Mysidacea <5mm               | 2                 | 256.0       | 17           | 402        | 0.6   |
| Hyperiididae <5mm            | 2                 | 256.0       | 17           | 402        | 0.6   |
| Cirripedia - nauplius <5mm   | 2                 | 256.0       | 17           | 402        | 0.6   |
| Neocalanus cristatus C-4     | 28                | 16.0        | 15           | 351        | 0.5   |
| Neocalanus plumchrus C-3     | 15                | 28.4        | 14           | 334        | 0.5   |
| Thysanoessa inermis A&J      | 26                | 16.0        | 14           | 326        | 0.5   |
| Cirripedia - cypris <5mm     | 1                 | 256.0       | 8            | 201        | 0.3   |
| Euphausiacea - calyptopis 1  | 1                 | 256.0       | 8            | 201        | 0.3   |
| Eucalanus bungii C-1         | 1                 | 256.0       | 8            | 201        | 0.3   |
| Calanus pacificus C-5        | 8                 | 28.4        | 7            | 178        | 0.3   |
| Calanus marshallae - adult F | 7                 | 28.4        | 6            | 156        | 0.2   |
| Other Copepoda >5mm          | 5                 | 16.0        | 3            | 63         | 0.1   |
| Eucalanus bungii - adult F   | 5                 | 16.0        | 3            | 63         | 0.1   |
| Gammaridea >5mm              | 5                 | 16.0        | 3            | 63         | 0.1   |
| Cnidaria - medusa >5mm       | 4                 | 16.0        | 2            | 50         | 0.1   |
| Neocalanus plumchrus C-2     | 2                 | 28.4        | 2            | 45         | 0.1   |
| Siphonophora >5mm            | 3                 | 16.0        | 2            | 38         | 0.1   |
| Thysanoessa spinifera A&J    | 2                 | 16.0        | 1            | 25         | < 0.1 |
| Euphausiacea A&J damaged     | 2                 | 16.0        | 1            | 25         | < 0.1 |
| Calanus marshallae C-3       | 1                 | 28.4        | 1            | 22         | < 0.1 |
| Euphausia pacifica A&J       | 1                 | 16.0        | 1            | 13         | < 0.1 |
| Chaetognatha >20mm           | 1                 | 16.0        | 1            | 13         | < 0.1 |
| Eucalanus bungii C-5 F       | 1                 | 16.0        | 1            | 13         | < 0.1 |

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| 2771  | 66496 | 100.  |



STA. G062A      57 00.9 N      155 37.0 W      06 May 85      7:51

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH

285                              0 - 244                              327.4                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F | 55                | 256.0       | 430          | 10494      | 13.6  |
| Metridia pacifica - adult F  | 37                | 256.0       | 289          | 7060       | 9.1   |
| Neocalanus plumchrus C-4     | 36                | 256.0       | 282          | 6869       | 8.9   |
| Metridia pacifica - adult M  | 34                | 256.0       | 266          | 6487       | 8.4   |
| Ostracoda <5mm               | 31                | 256.0       | 242          | 5915       | 7.6   |
| Neocalanus plumchrus C-5     | 27                | 256.0       | 211          | 5152       | 6.7   |
| Pseudocalanus spp. C-5 F     | 23                | 256.0       | 180          | 4389       | 5.7   |
| Metridia pacifica C-4        | 21                | 256.0       | 164          | 4007       | 5.2   |
| Metridia pacifica C-5 M      | 20                | 256.0       | 156          | 3816       | 4.9   |
| Neocalanus plumchrus C-3     | 18                | 256.0       | 141          | 3435       | 4.4   |
| Other Copepoda <2mm          | 18                | 256.0       | 141          | 3435       | 4.4   |
| Metridia pacifica C-5 F      | 16                | 256.0       | 125          | 3053       | 3.9   |
| Pseudocalanus spp. C-5 M     | 15                | 256.0       | 117          | 2862       | 3.7   |
| Oithona spp.                 | 67                | 28.4        | 58           | 1418       | 1.8   |
| Metriididae C-3              | 7                 | 256.0       | 55           | 1336       | 1.7   |
| Neocalanus plumchrus C-2     | 6                 | 256.0       | 47           | 1145       | 1.5   |
| Calanus pacificus C-5        | 46                | 28.4        | 40           | 974        | 1.3   |
| Pseudocalanus spp. - adult M | 5                 | 256.0       | 39           | 954        | 1.2   |
| Gammaridea <5mm              | 5                 | 256.0       | 39           | 954        | 1.2   |
| Acartia spp.                 | 28                | 28.4        | 24           | 593        | 0.8   |
| Other Copepoda 2-5mm         | 3                 | 256.0       | 23           | 572        | 0.7   |
| Calanus marshallae C-3       | 2                 | 256.0       | 16           | 382        | 0.5   |
| Neocalanus cristatus C-5     | 30                | 16.0        | 15           | 358        | 0.5   |
| Neocalanus cristatus C-4     | 29                | 16.0        | 14           | 346        | 0.4   |
| Gammaridea >5mm              | 22                | 16.0        | 11           | 262        | 0.3   |
| Mysidacea <5mm               | 1                 | 256.0       | 8            | 191        | 0.2   |
| Larvacea                     | 1                 | 256.0       | 8            | 191        | 0.2   |
| Chaetognatha 5-20mm          | 11                | 16.0        | 5            | 131        | 0.2   |
| Cnidaria - medusa >5mm       | 7                 | 16.0        | 3            | 83         | 0.1   |
| Eucalanus bungii - adult F   | 6                 | 16.0        | 3            | 72         | 0.1   |
| Other Copepoda >5mm          | 6                 | 16.0        | 3            | 72         | 0.1   |
| Calanus marshallae - adult F | 3                 | 28.4        | 3            | 64         | 0.1   |
| Calanus marshallae - adult M | 3                 | 28.4        | 3            | 64         | 0.1   |
| Thysanoessa inermis A&J      | 5                 | 16.0        | 2            | 60         | 0.1   |
| Chaetognatha >20mm           | 5                 | 16.0        | 2            | 60         | 0.1   |
| Mysidacea >5mm               | 3                 | 16.0        | 1            | 36         | < 0.1 |
| Euphausia pacifica A&J       | 3                 | 16.0        | 1            | 36         | < 0.1 |
| Eucalanus bungii - adult M   | 2                 | 16.0        | 1            | 24         | < 0.1 |
| Siphonophora >5mm            | 2                 | 16.0        | 1            | 24         | < 0.1 |
| Thysanoessa spinifera A&J    | 2                 | 16.0        | 1            | 24         | < 0.1 |
| Calanus pacificus - adult F  | 1                 | 28.4        | 1            | 21         | < 0.1 |
| Thysanoessa raschii A&J      | 1                 | 16.0        | < 1          | 12         | < 0.1 |
| Hyperiidia >5mm              | 1                 | 16.0        | < 1          | 12         | < 0.1 |
|                              |                   |             | 3174         | 77441      | 100.  |

STA. G063A 57 03.5 N 155 44.0 W 06 May 85 8:45

DEPTH 290 SAMPLING INTERVAL 0 - 250 VOLUME FILTERED 336.3 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchirus C-5    | 67                | 512.0       | 1020         | 25498      | 15.5  |
| Metridia pacifica C-4        | 43                | 512.0       | 655          | 16365      | 10.0  |
| Metridia pacifica - adult F  | 40                | 512.0       | 609          | 15223      | 9.3   |
| Pseudocalanus spp. - adult F | 37                | 512.0       | 563          | 14081      | 8.6   |
| Metridia pacifica C-5 F      | 30                | 512.0       | 457          | 11417      | 7.0   |
| Pseudocalanus spp. C-5 F     | 26                | 512.0       | 396          | 9895       | 6.0   |
| Pseudocalanus spp. - adult M | 25                | 512.0       | 381          | 9514       | 5.8   |
| Metridia pacifica - adult M  | 22                | 512.0       | 335          | 8373       | 5.1   |
| Neocalanus plumchirus C-4    | 22                | 512.0       | 335          | 8373       | 5.1   |
| Metridia pacifica C-5 M      | 18                | 512.0       | 274          | 6850       | 4.2   |
| Pseudocalanus spp. C-5 M     | 14                | 512.0       | 213          | 5328       | 3.2   |
| Oithona spp.                 | 11                | 512.0       | 167          | 4186       | 2.6   |
| Other Copepoda <2mm          | 9                 | 512.0       | 137          | 3425       | 2.1   |
| Ostracoda <5mm               | 8                 | 512.0       | 122          | 3045       | 1.9   |
| Metriididae C-3              | 7                 | 512.0       | 107          | 2664       | 1.6   |
| Neocalanus plumchirus C-3    | 35                | 102.4       | 107          | 2664       | 1.6   |
| Other Copepoda 2-5mm         | 6                 | 512.0       | 91           | 2283       | 1.4   |
| Calanus pacificus C-5        | 30                | 102.4       | 91           | 2283       | 1.4   |
| Thecosomata <5mm             | 4                 | 512.0       | 61           | 1522       | 0.9   |
| Pseudocalanus spp. C-4 M     | 3                 | 512.0       | 46           | 1142       | 0.7   |
| Siphonophora <5mm            | 3                 | 512.0       | 46           | 1142       | 0.7   |
| Cirripecta - nauplius <5mm   | 3                 | 512.0       | 46           | 1142       | 0.7   |
| Neocalanus cristatus C-5     | 86                | 16.0        | 41           | 1023       | 0.6   |
| Mysidacea <5mm               | 2                 | 512.0       | 30           | 761        | 0.5   |
| Neocalanus cristatus C-4     | 63                | 16.0        | 30           | 749        | 0.5   |
| Neocalanus plumchirus C-2    | 9                 | 102.4       | 27           | 685        | 0.4   |
| Gammaridea <5mm              | 1                 | 512.0       | 15           | 381        | 0.2   |
| Pseudocalanus spp. C-4 F     | 1                 | 512.0       | 15           | 381        | 0.2   |
| Euphausiacea - calyptopis 2  | 5                 | 102.4       | 15           | 381        | 0.2   |
| Natantia - larva             | 1                 | 512.0       | 15           | 381        | 0.2   |
| Larvacea                     | 1                 | 512.0       | 15           | 381        | 0.2   |
| Hyperiidia <5mm              | 1                 | 512.0       | 15           | 381        | 0.2   |
| Calanus marshallae C-3       | 5                 | 102.4       | 15           | 381        | 0.2   |
| Eucalanus bungii C-2         | 3                 | 102.4       | 9            | 228        | 0.1   |
| Eucalanus bungii C-1         | 3                 | 102.4       | 9            | 228        | 0.1   |
| Calanus marshallae C-2       | 3                 | 102.4       | 9            | 228        | 0.1   |
| Chaetognatha 5-20mm          | 16                | 16.0        | 8            | 190        | 0.1   |
| Gammaridea >5mm              | 13                | 16.0        | 6            | 155        | 0.1   |
| Euphausiacea - calyptopis 1  | 2                 | 102.4       | 6            | 152        | 0.1   |
| Eucalanus bungii - adult F   | 10                | 16.0        | 5            | 119        | 0.1   |
| Chaetognatha >20mm           | 10                | 16.0        | 5            | 119        | 0.1   |
| Euphausiacea - nauplius      | 1                 | 102.4       | 3            | 76         | < 0.1 |
| Thysanoessa spinifera A&J    | 6                 | 16.0        | 3            | 71         | < 0.1 |
| Mysidacea >5mm               | 6                 | 16.0        | 3            | 71         | < 0.1 |
| Other Copepoda >5mm          | 4                 | 16.0        | 2            | 48         | < 0.1 |
| Cnidaria - medusa >5mm       | 3                 | 16.0        | 1            | 36         | < 0.1 |

|                         |   |       |        |       |       |
|-------------------------|---|-------|--------|-------|-------|
| Hyperiididea >5mm       | 2 | 16.0  | 1      | 24    | < 0.1 |
| Eucalanus bungii C-5 F  | 1 | 16.0  | < 1    | 12    | < 0.1 |
| Siphonophora >5mm       | 1 | 16.0  | < 1    | 12    | < 0.1 |
| Thysanoessa inermis A&J | 1 | 16.0  | < 1    | 12    | < 0.1 |
|                         |   | ----- | -----  | ----- |       |
|                         |   | 6563  | 164079 | 100.  |       |

STA. G065A      57 09.7 N      155 58.0 W      06 May 85      10:39

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
275                      0 - 239                      308.5                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Metridia pacifica - adult F  | 106               | 256.0       | 880          | 21023      | 20.6  |
| Metridia pacifica C-5 F      | 68                | 256.0       | 564          | 13486      | 13.2  |
| Metridia pacifica C-4        | 45                | 256.0       | 373          | 8925       | 8.7   |
| Pseudocalanus spp. - adult F | 42                | 256.0       | 349          | 8330       | 8.1   |
| Metridia pacifica C-5 M      | 41                | 256.0       | 340          | 8131       | 8.0   |
| Metridia pacifica - adult M  | 30                | 256.0       | 249          | 5950       | 5.8   |
| Neocalanus plumchrus C-4     | 29                | 256.0       | 241          | 5752       | 5.6   |
| Neocalanus plumchrus C-2     | 72                | 85.3        | 199          | 4758       | 4.7   |
| Pseudocalanus spp. - adult M | 18                | 256.0       | 149          | 3570       | 3.5   |
| Neocalanus plumchrus C-5     | 17                | 256.0       | 141          | 3372       | 3.3   |
| Pseudocalanus spp. C-5 F     | 15                | 256.0       | 124          | 2975       | 2.9   |
| Neocalanus plumchrus C-3     | 31                | 85.3        | 86           | 2049       | 2.0   |
| Metriididae C-3              | 10                | 256.0       | 83           | 1983       | 1.9   |
| Pseudocalanus spp. C-5 M     | 10                | 256.0       | 83           | 1983       | 1.9   |
| Other Copepoda <2mm          | 10                | 256.0       | 83           | 1983       | 1.9   |
| Other Copepoda 2-5mm         | 9                 | 256.0       | 75           | 1785       | 1.7   |
| Ostracoda <5mm               | 3                 | 256.0       | 25           | 595        | 0.6   |
| Oithona spp.                 | 9                 | 85.3        | 25           | 595        | 0.6   |
| Acartia spp.                 | 7                 | 85.3        | 19           | 463        | 0.5   |
| Neocalanus cristatus C-5     | 37                | 16.0        | 19           | 459        | 0.4   |
| Larvacea                     | 2                 | 256.0       | 17           | 397        | 0.4   |
| Pseudocalanus spp. C-4 F     | 2                 | 256.0       | 17           | 397        | 0.4   |
| Mysidacea <5mm               | 2                 | 256.0       | 17           | 397        | 0.4   |
| Thysanoessa spinifera A&J    | 29                | 16.0        | 15           | 359        | 0.4   |
| Neocalanus cristatus C-4     | 29                | 16.0        | 15           | 359        | 0.4   |
| Thysanoessa inermis A&J      | 29                | 16.0        | 15           | 359        | 0.4   |
| Calanus pacificus C-5        | 13                | 23.3        | 10           | 235        | 0.2   |
| Chaetognatha 5-20mm          | 17                | 16.0        | 9            | 211        | 0.2   |
| Pseudocalanus spp. C-4 M     | 1                 | 256.0       | 8            | 198        | 0.2   |
| Thecosomata <5mm             | 1                 | 256.0       | 8            | 198        | 0.2   |
| Hyperiididae <5mm            | 1                 | 256.0       | 8            | 198        | 0.2   |
| Calanus marshallae - adult F | 7                 | 23.3        | 5            | 126        | 0.1   |
| Calanus marshallae C-3       | 1                 | 85.3        | 3            | 66         | 0.1   |
| Eucalanus bungii C-1         | 1                 | 85.3        | 3            | 66         | 0.1   |
| Calanus marshallae - adult M | 3                 | 23.3        | 2            | 54         | 0.1   |
| Calanus pacificus - adult F  | 3                 | 23.3        | 2            | 54         | 0.1   |
| Chaetognatha >20mm           | 4                 | 16.0        | 2            | 50         | < 0.1 |
| Cnidaria - medusa >5mm       | 4                 | 16.0        | 2            | 50         | < 0.1 |
| Other Copepoda >5mm          | 3                 | 16.0        | 2            | 37         | < 0.1 |
| Eucalanus bungii - adult F   | 3                 | 16.0        | 2            | 37         | < 0.1 |
| Calanus pacificus - adult M  | 2                 | 23.3        | 2            | 36         | < 0.1 |
| Polychaeta >5mm              | 2                 | 16.0        | 1            | 25         | < 0.1 |
| Calanus marshallae C-5       | 1                 | 23.3        | 1            | 18         | < 0.1 |
| Euphausiacea - calyptopis 3  | 1                 | 23.3        | 1            | 18         | < 0.1 |
| Euphausiacea - calyptopis 1  | 1                 | 23.3        | 1            | 18         | < 0.1 |
| Euphausiacea - furcilia      | 1                 | 23.3        | 1            | 18         | < 0.1 |

|                            |   |       |        |       |       |
|----------------------------|---|-------|--------|-------|-------|
| Eucalanus bungii - adult M | 1 | 16.0  | 1      | 12    | < 0.1 |
| Hyperiidea >5mm            | 1 | 16.0  | 1      | 12    | < 0.1 |
| Eucalanus bungii C-5 F     | 1 | 16.0  | 1      | 12    | < 0.1 |
| Siphonophora >5mm          | 1 | 16.0  | 1      | 12    | < 0.1 |
| Gammaridea >5mm            | 1 | 16.0  | 1      | 12    | < 0.1 |
|                            |   | ----- | -----  | ----- |       |
|                            |   | 4277  | 102210 |       | 100.  |

STA. G066A      57 12.3 N      156 05.0 W      06 May 85      11:39

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
95                              0 - 83                              131.1                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 74                | 256.0       | 1445         | 11993      | 23.8  |
| Pseudocalanus spp. - adult F | 48                | 256.0       | 937          | 7780       | 15.5  |
| Neocalanus plumchrus C-5     | 43                | 256.0       | 840          | 6969       | 13.8  |
| Neocalanus plumchrus C-3     | 31                | 256.0       | 605          | 5024       | 10.0  |
| Pseudocalanus spp. C-5 M     | 20                | 256.0       | 391          | 3241       | 6.4   |
| Pseudocalanus spp. C-5 F     | 17                | 256.0       | 332          | 2755       | 5.5   |
| Neocalanus plumchrus C-2     | 14                | 256.0       | 273          | 2269       | 4.5   |
| Pseudocalanus spp. - adult M | 13                | 256.0       | 254          | 2107       | 4.2   |
| Metridia pacifica C-4        | 12                | 256.0       | 234          | 1945       | 3.9   |
| Metridia pacifica C-5 M      | 9                 | 256.0       | 176          | 1459       | 2.9   |
| Metriididae C-3              | 7                 | 256.0       | 137          | 1135       | 2.3   |
| Acartia spp.                 | 5                 | 256.0       | 98           | 810        | 1.6   |
| Metridia pacifica C-5 F      | 5                 | 256.0       | 98           | 810        | 1.6   |
| Oithona spp.                 | 2                 | 256.0       | 39           | 324        | 0.6   |
| Anomura - larva              | 2                 | 256.0       | 39           | 324        | 0.6   |
| Thysanoessa inermis A&J      | 57                | 8.0         | 35           | 289        | 0.6   |
| Pseudocalanus spp. C-4 F     | 1                 | 256.0       | 20           | 162        | 0.3   |
| Ostracoda <5mm               | 1                 | 256.0       | 20           | 162        | 0.3   |
| Other Copepoda <2mm          | 1                 | 256.0       | 20           | 162        | 0.3   |
| Metridia pacifica - adult M  | 1                 | 256.0       | 20           | 162        | 0.3   |
| Thecosomata <5mm             | 1                 | 256.0       | 20           | 162        | 0.3   |
| Neocalanus cristatus C-4     | 23                | 8.0         | 14           | 116        | 0.2   |
| Thysanoessa spinifera A&J    | 14                | 8.0         | 9            | 71         | 0.1   |
| Chaetognatha 5-20mm          | 11                | 8.0         | 7            | 56         | 0.1   |
| Chaetognatha >20mm           | 5                 | 8.0         | 3            | 25         | 0.1   |
| Eucalanus bungii - adult F   | 2                 | 8.0         | 1            | 10         | < 0.1 |
| Euphausia pacifica A&J       | 1                 | 8.0         | 1            | 5          | < 0.1 |
| Thysanoessa raschii A&J      | 1                 | 8.0         | 1            | 5          | < 0.1 |
| Eucalanus bungii C-5 M       | 1                 | 8.0         | 1            | 5          | < 0.1 |
| Cnidaria - medusa >5mm       | 1                 | 8.0         | 1            | 5          | < 0.1 |
|                              |                   |             | 6066         | 50344      | 100.  |

STA. G075A      56 37.3 N      155 36.0 W      07 May 85      0:54

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
218                      0 - 185                  255.4                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 84                | 256.0       | 842          | 15574      | 16.5  |
| Pseudocalanus spp. - adult F | 71                | 256.0       | 712          | 13164      | 13.9  |
| Neocalanus plumchrus C-3     | 45                | 256.0       | 451          | 8343       | 8.8   |
| Pseudocalanus spp. C-5 M     | 38                | 256.0       | 381          | 7045       | 7.5   |
| Neocalanus plumchrus C-5     | 36                | 256.0       | 361          | 6675       | 7.1   |
| Pseudocalanus spp. - adult M | 35                | 256.0       | 351          | 6489       | 6.9   |
| Pseudocalanus spp. C-5 F     | 32                | 256.0       | 321          | 5933       | 6.3   |
| Metridia pacifica C-4        | 27                | 256.0       | 271          | 5006       | 5.3   |
| Metridia pacifica C-5 M      | 23                | 256.0       | 231          | 4264       | 4.5   |
| Neocalanus plumchrus C-2     | 21                | 256.0       | 210          | 3894       | 4.1   |
| Metridia pacifica - adult F  | 16                | 256.0       | 160          | 2967       | 3.1   |
| Metridia pacifica - adult M  | 14                | 256.0       | 140          | 2596       | 2.7   |
| Other Copepoda <2mm          | 11                | 256.0       | 110          | 2039       | 2.2   |
| Pseudocalanus spp. C-4 F     | 9                 | 256.0       | 90           | 1669       | 1.8   |
| Metridia pacifica C-5 F      | 9                 | 256.0       | 90           | 1669       | 1.8   |
| Metriididae C-3              | 6                 | 256.0       | 60           | 1112       | 1.2   |
| Cirripedia - nauplius <5mm   | 5                 | 256.0       | 50           | 927        | 1.0   |
| Thecosomata <5mm             | 4                 | 256.0       | 40           | 742        | 0.8   |
| Pseudocalanus spp. C-4 M     | 3                 | 256.0       | 30           | 556        | 0.6   |
| Natantia - larva             | 3                 | 256.0       | 30           | 556        | 0.6   |
| Oithona spp.                 | 42                | 15.1        | 25           | 459        | 0.5   |
| Acartia spp.                 | 36                | 15.1        | 21           | 394        | 0.4   |
| Chaetognatha 5-20mm          | 34                | 8.0         | 11           | 197        | 0.2   |
| Other Copepoda <2mm          | 1                 | 256.0       | 10           | 185        | 0.2   |
| Mysidacea <5mm               | 1                 | 256.0       | 10           | 185        | 0.2   |
| Gastropoda <5mm              | 1                 | 256.0       | 10           | 185        | 0.2   |
| Calanus marshallae C-2       | 1                 | 256.0       | 10           | 185        | 0.2   |
| Other Copepoda 2-5mm         | 1                 | 256.0       | 10           | 185        | 0.2   |
| Brachyura - larva            | 1                 | 256.0       | 10           | 185        | 0.2   |
| Calanus marshallae C-3       | 1                 | 256.0       | 10           | 185        | 0.2   |
| Cirripedia - cypris <5mm     | 1                 | 256.0       | 10           | 185        | 0.2   |
| Neocalanus cristatus C-5     | 24                | 8.0         | 8            | 139        | 0.1   |
| Neocalanus cristatus C-4     | 23                | 8.0         | 7            | 133        | 0.1   |
| Euphausiacea - calyptopis 2  | 6                 | 15.1        | 4            | 66         | 0.1   |
| Eucalanus bungii - adult F   | 7                 | 8.0         | 2            | 41         | < 0.1 |
| Calanus marshallae C-5       | 3                 | 15.1        | 2            | 33         | < 0.1 |
| Chaetognatha >20mm           | 4                 | 8.0         | 1            | 23         | < 0.1 |
| Euphausiacea - calyptopis 3  | 2                 | 15.1        | 1            | 22         | < 0.1 |
| Calanus marshallae - adult F | 2                 | 15.1        | 1            | 22         | < 0.1 |
| Calanus marshallae - adult M | 2                 | 15.1        | 1            | 22         | < 0.1 |
| Calanus pacificus C-5        | 2                 | 15.1        | 1            | 22         | < 0.1 |
| Calanus marshallae C-4       | 2                 | 15.1        | 1            | 22         | < 0.1 |
| Cnidaria - medusa >5mm       | 3                 | 8.0         | 1            | 17         | < 0.1 |
| Gammaridea >5mm              | 3                 | 8.0         | 1            | 17         | < 0.1 |
| Thysanoessa inermis A&J      | 3                 | 8.0         | 1            | 17         | < 0.1 |
| Siphonophora >5mm            | 3                 | 8.0         | 1            | 17         | < 0.1 |

|                             |   |       |       |       |       |
|-----------------------------|---|-------|-------|-------|-------|
| Eucalanus bungii C-5 F      | 2 | 8.0   | 1     | 12    | < 0.1 |
| Thysanoessa spinifera A&J   | 2 | 8.0   | 1     | 12    | < 0.1 |
| Euphausiacea - furcilia     | 1 | 15.1  | 1     | 11    | < 0.1 |
| Calanus pacificus - adult F | 1 | 15.1  | 1     | 11    | < 0.1 |
| Calanus pacificus - adult M | 1 | 15.1  | 1     | 11    | < 0.1 |
| Polychaeta >5mm             | 1 | 8.0   | < 1   | 6     | < 0.1 |
|                             |   | ----- | ----- | ----- |       |
|                             |   | 5104  | 94429 | 100.  |       |



STA. G077A      56 43.1 N      155 50.0 W      07 May 85      3:57

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
293                      0 - 245                  330.6                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 36                | 512.0       | 558          | 13660      | 12.7  |
| Neocalanus plumchrus C-5     | 35                | 512.0       | 542          | 13281      | 12.3  |
| Pseudocalanus spp. - adult F | 27                | 512.0       | 418          | 10245      | 9.5   |
| Neocalanus plumchrus C-3     | 23                | 512.0       | 356          | 8727       | 8.1   |
| Metridia pacifica - adult F  | 23                | 512.0       | 356          | 8727       | 8.1   |
| Metridia pacifica - adult M  | 17                | 512.0       | 263          | 6451       | 6.0   |
| Metridia pacifica C-4        | 15                | 512.0       | 232          | 5692       | 5.3   |
| Metridia pacifica C-5 F      | 12                | 512.0       | 186          | 4553       | 4.2   |
| Pseudocalanus spp. C-5 F     | 12                | 512.0       | 186          | 4553       | 4.2   |
| Pseudocalanus spp. - adult M | 11                | 512.0       | 170          | 4174       | 3.9   |
| Neocalanus plumchrus C-2     | 11                | 512.0       | 170          | 4174       | 3.9   |
| Pseudocalanus spp. C-5 M     | 9                 | 512.0       | 139          | 3415       | 3.2   |
| Ostracoda <5mm               | 8                 | 512.0       | 124          | 3036       | 2.8   |
| Other Copepoda <2mm          | 6                 | 512.0       | 93           | 2277       | 2.1   |
| Metridia pacifica C-5 M      | 5                 | 512.0       | 77           | 1897       | 1.8   |
| Oithona spp.                 | 35                | 56.9        | 60           | 1476       | 1.4   |
| Pseudocalanus spp. C-4 F     | 3                 | 512.0       | 46           | 1138       | 1.1   |
| Other Copepoda 2-5mm         | 3                 | 512.0       | 46           | 1138       | 1.1   |
| Neocalanus cristatus C-5     | 41                | 32.0        | 40           | 972        | 0.9   |
| Euphausiacea - calyptopis 1  | 23                | 56.9        | 40           | 970        | 0.9   |
| Calanus pacificus C-5        | 19                | 56.9        | 33           | 801        | 0.7   |
| Pseudocalanus spp. C-4 M     | 2                 | 512.0       | 31           | 759        | 0.7   |
| Neocalanus cristatus C-4     | 30                | 32.0        | 29           | 711        | 0.7   |
| Acartia spp.                 | 16                | 56.9        | 28           | 675        | 0.6   |
| Chaetognatha 5-20mm          | 23                | 32.0        | 22           | 545        | 0.5   |
| Metriididae C-3              | 1                 | 512.0       | 15           | 379        | 0.4   |
| Thecosomata <5mm             | 1                 | 512.0       | 15           | 379        | 0.4   |
| Cirripedia - nauplius <5mm   | 1                 | 512.0       | 15           | 379        | 0.4   |
| Chaetognatha <5mm            | 1                 | 512.0       | 15           | 379        | 0.4   |
| Hyperiididae <5mm            | 1                 | 512.0       | 15           | 379        | 0.4   |
| Euphausiacea - calyptopis 2  | 8                 | 56.9        | 14           | 337        | 0.3   |
| Eucalanus bungii C-1         | 6                 | 56.9        | 10           | 253        | 0.2   |
| Euphausiacea - nauplius      | 5                 | 56.9        | 9            | 211        | 0.2   |
| Eucalanus bungii C-2         | 5                 | 56.9        | 9            | 211        | 0.2   |
| Cnidaria - medusa >5mm       | 8                 | 32.0        | 8            | 190        | 0.2   |
| Euphausiacea - calyptopis 3  | 4                 | 56.9        | 7            | 169        | 0.2   |
| Chaetognatha >20mm           | 3                 | 32.0        | 3            | 71         | 0.1   |
| Eucalanus bungii - adult F   | 3                 | 32.0        | 3            | 71         | 0.1   |
| Mysidacea >5mm               | 2                 | 32.0        | 2            | 47         | < 0.1 |
| Other Copepoda >5mm          | 2                 | 32.0        | 2            | 47         | < 0.1 |
| Eucalanus bungii C-5 F       | 2                 | 32.0        | 2            | 47         | < 0.1 |
| Gammaridea >5mm              | 2                 | 32.0        | 2            | 47         | < 0.1 |
| Calanus marshallae C-4       | 1                 | 56.9        | 2            | 42         | < 0.1 |
| Eucalanus bungii C-4 F       | 1                 | 56.9        | 2            | 42         | < 0.1 |
| Calanus marshallae - adult M | 1                 | 56.9        | 2            | 42         | < 0.1 |
| Cumacea >5mm                 | 1                 | 32.0        | 1            | 24         | < 0.1 |

|                                |   |       |        |       |       |
|--------------------------------|---|-------|--------|-------|-------|
| Neocalanus cristatus - adult F | 1 | 32.0  | 1      | 24    | < 0.1 |
|                                |   | ----- | -----  | ----- | ----- |
|                                |   | 4401  | 107822 | 100.  |       |

STA. G080A      56 54.4 N      156 14.0 W      07 May 85      6:48

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
192                      0 - 164                  233.8                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F | 59                | 256.0       | 646          | 10595      | 12.9  |
| Metridia pacifica C-4        | 55                | 256.0       | 602          | 9877       | 12.0  |
| Neocalanus plumchrus C-5     | 52                | 256.0       | 569          | 9338       | 11.3  |
| Neocalanus plumchrus C-4     | 37                | 256.0       | 405          | 6644       | 8.1   |
| Pseudocalanus spp. - adult M | 34                | 256.0       | 372          | 6106       | 7.4   |
| Metridia pacifica C-5 F      | 30                | 256.0       | 329          | 5387       | 6.5   |
| Pseudocalanus spp. C-5 F     | 27                | 256.0       | 296          | 4849       | 5.9   |
| Pseudocalanus spp. C-5 M     | 26                | 256.0       | 285          | 4669       | 5.7   |
| Metridia pacifica - adult F  | 25                | 256.0       | 274          | 4490       | 5.4   |
| Neocalanus plumchrus C-2     | 21                | 256.0       | 230          | 3771       | 4.6   |
| Metridia pacifica C-5 M      | 20                | 256.0       | 219          | 3592       | 4.4   |
| Metridia pacifica - adult M  | 11                | 256.0       | 120          | 1975       | 2.4   |
| Other Copepoda <2mm          | 8                 | 256.0       | 88           | 1437       | 1.7   |
| Metriididae C-3              | 7                 | 256.0       | 77           | 1257       | 1.5   |
| Pseudocalanus spp. C-4 F     | 5                 | 256.0       | 55           | 898        | 1.1   |
| Cirripedia - nauplius <5mm   | 5                 | 256.0       | 55           | 898        | 1.1   |
| Euphausiacea - calyptopis 3  | 4                 | 256.0       | 44           | 718        | 0.9   |
| Oithona spp.                 | 33                | 28.4        | 40           | 657        | 0.8   |
| Acartia spp.                 | 32                | 28.4        | 39           | 638        | 0.8   |
| Neocalanus plumchrus C-2     | 3                 | 256.0       | 33           | 539        | 0.7   |
| Calanus marshallae C-3       | 3                 | 256.0       | 33           | 539        | 0.7   |
| Pseudocalanus spp. C-4 M     | 3                 | 256.0       | 33           | 539        | 0.7   |
| Euphausiacea - calyptopis 2  | 21                | 28.4        | 26           | 418        | 0.5   |
| Thecosomata <5mm             | 2                 | 256.0       | 22           | 359        | 0.4   |
| Calanus marshallae C-2       | 2                 | 256.0       | 22           | 359        | 0.4   |
| Chaetognatha 5-20mm          | 31                | 16.0        | 21           | 348        | 0.4   |
| Neocalanus cristatus C-4     | 29                | 16.0        | 20           | 325        | 0.4   |
| Neocalanus cristatus C-5     | 24                | 16.0        | 16           | 269        | 0.3   |
| Euphausiacea - nauplius      | 1                 | 256.0       | 11           | 180        | 0.2   |
| Calanus marshallae - adult F | 8                 | 28.4        | 10           | 159        | 0.2   |
| Euphausiacea - calyptopis 1  | 6                 | 28.4        | 7            | 120        | 0.1   |
| Eucalanus bungii C-2         | 5                 | 32.0        | 7            | 112        | 0.1   |
| Eucalanus bungii - adult F   | 8                 | 16.0        | 5            | 90         | 0.1   |
| Thysanoessa spinifera A&J    | 5                 | 16.0        | 3            | 56         | 0.1   |
| Chaetognatha >20mm           | 5                 | 16.0        | 3            | 56         | 0.1   |
| Thysanoessa inermis A&J      | 5                 | 16.0        | 3            | 56         | 0.1   |
| Calanus marshallae - adult M | 2                 | 28.4        | 2            | 40         | < 0.1 |
| Eucalanus bungii C-1         | 1                 | 32.0        | 1            | 22         | < 0.1 |
| Eucalanus bungii C-3         | 1                 | 32.0        | 1            | 22         | < 0.1 |
| Cnidaria - medusa >5mm       | 2                 | 16.0        | 1            | 22         | < 0.1 |
| Gammaridea >5mm              | 1                 | 16.0        | 1            | 11         | < 0.1 |
| Siphonophora >5mm            | 1                 | 16.0        | 1            | 11         | < 0.1 |
|                              |                   |             | 5027         | 82450      | 100.  |

STA. G096A      56 34.5 N      156 55.0 W      07 May 85      23:09

DEPTH      SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
110      0 - 89      127.9      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 89                | 32.0        | 223          | 1981       | 29.9  |
| Pseudocalanus spp. - adult F | 43                | 32.0        | 108          | 957        | 14.4  |
| Unidentified Calanoida C-3   | 24                | 32.0        | 60           | 534        | 8.1   |
| Neocalanus plumchrus C-5     | 22                | 32.0        | 55           | 490        | 7.4   |
| Pseudocalanus spp. C-5 F     | 21                | 32.0        | 53           | 467        | 7.0   |
| Cirripedia - nauplius <5mm   | 18                | 32.0        | 45           | 401        | 6.0   |
| Natantia - larva             | 14                | 32.0        | 35           | 312        | 4.7   |
| Pseudocalanus spp. C-5 M     | 11                | 32.0        | 28           | 245        | 3.7   |
| Metridia pacifica C-4        | 8                 | 32.0        | 20           | 178        | 2.7   |
| Metridia pacifica - adult F  | 6                 | 32.0        | 15           | 134        | 2.0   |
| Acartia spp.                 | 40                | 3.6         | 11           | 100        | 1.5   |
| Brachyura - larva            | 4                 | 32.0        | 10           | 89         | 1.3   |
| Metridia pacifica C-5 F      | 4                 | 32.0        | 10           | 89         | 1.3   |
| Metridia pacifica - adult M  | 4                 | 32.0        | 10           | 89         | 1.3   |
| Other Copepoda <2mm          | 4                 | 32.0        | 10           | 89         | 1.3   |
| Oithona spp.                 | 35                | 3.6         | 10           | 88         | 1.3   |
| Metridia pacifica C-5 M      | 3                 | 32.0        | 8            | 67         | 1.0   |
| Unidentified Calanoida C-2   | 2                 | 32.0        | 5            | 45         | 0.7   |
| Anomura - larva              | 2                 | 32.0        | 5            | 45         | 0.7   |
| Metriididae C-3              | 2                 | 32.0        | 5            | 45         | 0.7   |
| Neocalanus cristatus C-4     | 47                | 1.0         | 4            | 33         | 0.5   |
| Calanus marshallae - adult F | 1                 | 32.0        | 3            | 22         | 0.3   |
| Thecosomata <5mm             | 1                 | 32.0        | 3            | 22         | 0.3   |
| Gammaridea <5mm              | 1                 | 32.0        | 3            | 22         | 0.3   |
| Pseudocalanus spp. C-4 F     | 1                 | 32.0        | 3            | 22         | 0.3   |
| Cnidaria - medusa <5mm       | 1                 | 32.0        | 3            | 22         | 0.3   |
| Pseudocalanus spp. C-4 M     | 1                 | 32.0        | 3            | 22         | 0.3   |
| Chaetognatha 5-20mm          | 15                | 1.0         | 1            | 10         | 0.2   |
| Cnidaria - medusa >5mm       | 5                 | 1.0         | < 1          | 3          | 0.1   |
| Neocalanus cristatus C-5     | 5                 | 1.0         | < 1          | 3          | 0.1   |
| Chaetognatha >20mm           | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Eucalanus bungii C-5 M       | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Eucalanus bungii - adult F   | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Thysanoessa spinifera A&J    | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Thysanoessa inermis A&J      | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Polychaeta >5mm              | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                              |                   |             | 745          | 6633       | 100.  |

STA. G097A      56 31.2 N      156 49.0 W      07 May 85      23:53

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
124                      0 - 101                  171.6                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 165               | 128.0       | 1230         | 12428      | 26.6  |
| Pseudocalanus spp. - adult F | 113               | 128.0       | 843          | 8511       | 18.2  |
| Neocalanus plumchrus C-5     | 85                | 128.0       | 634          | 6402       | 13.7  |
| Neocalanus plumchrus C-3     | 71                | 128.0       | 529          | 5348       | 11.4  |
| Pseudocalanus spp. C-5 F     | 50                | 128.0       | 373          | 3766       | 8.0   |
| Pseudocalanus spp. C-5 M     | 32                | 128.0       | 239          | 2410       | 5.1   |
| Pseudocalanus spp. - adult M | 23                | 128.0       | 172          | 1732       | 3.7   |
| Neocalanus plumchrus C-2     | 19                | 128.0       | 142          | 1431       | 3.1   |
| Metridia pacifica - adult F  | 11                | 128.0       | 82           | 829        | 1.8   |
| Other Copepoda <2mm          | 7                 | 128.0       | 52           | 527        | 1.1   |
| Metridia pacifica C-4        | 7                 | 128.0       | 52           | 527        | 1.1   |
| Metriididae C-3              | 7                 | 128.0       | 52           | 527        | 1.1   |
| Metridia pacifica C-5 M      | 5                 | 128.0       | 37           | 377        | 0.8   |
| Pseudocalanus spp. C-4 F     | 3                 | 128.0       | 22           | 226        | 0.5   |
| Cirripecta - nauplius <5mm   | 3                 | 128.0       | 22           | 226        | 0.5   |
| Neocalanus cristatus C-4     | 92                | 4.0         | 21           | 217        | 0.5   |
| Pseudocalanus spp. C-4 M     | 2                 | 128.0       | 15           | 151        | 0.3   |
| Calanus marshallae C-3       | 2                 | 128.0       | 15           | 151        | 0.3   |
| Metridia pacifica - adult M  | 2                 | 128.0       | 15           | 151        | 0.3   |
| Acartia spp.                 | 17                | 14.2        | 14           | 142        | 0.3   |
| Calanus marshallae - adult F | 13                | 14.2        | 11           | 109        | 0.2   |
| Oithona spp.                 | 10                | 14.2        | 8            | 84         | 0.2   |
| Metridia pacifica C-5 F      | 1                 | 128.0       | 7            | 75         | 0.2   |
| Metriididae C-2              | 1                 | 128.0       | 7            | 75         | 0.2   |
| Ostracoda <5mm               | 1                 | 128.0       | 7            | 75         | 0.2   |
| Calanus marshallae C-2       | 1                 | 128.0       | 7            | 75         | 0.2   |
| Neocalanus cristatus C-3     | 1                 | 128.0       | 7            | 75         | 0.2   |
| Chaetognatha 5-20mm          | 24                | 4.0         | 6            | 56         | 0.1   |
| Neocalanus cristatus C-5     | 17                | 4.0         | 4            | 40         | 0.1   |
| Calanus marshallae - adult M | 2                 | 14.2        | 2            | 17         | < 0.1 |
| Eucalanus bungii - adult F   | 4                 | 4.0         | 1            | 9          | < 0.1 |
| Calanus marshallae C-5       | 1                 | 14.2        | 1            | 8          | < 0.1 |
| Chaetognatha >20mm           | 3                 | 4.0         | 1            | 7          | < 0.1 |
| Eucalanus bungii C-5 F       | 2                 | 4.0         | < 1          | 5          | < 0.1 |
| Eucalanus bungii C-5 M       | 2                 | 4.0         | < 1          | 5          | < 0.1 |
| Cnidaria - medusa >5mm       | 2                 | 4.0         | < 1          | 5          | < 0.1 |
| Gammaridea >5mm              | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Thysanoessa raschii A&J      | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Siphonophora >5mm            | 1                 | 4.0         | < 1          | 2          | < 0.1 |
|                              |                   |             | 4634         | 46806      | 100.  |

STA. G098A      56 27.3 N      156 41.0 W      08 May 85      1:01

DEPTH      SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
173      0 - 145      121.4      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F | 72                | 64.0        | 380          | 5506       | 14.0  |
| Neocalanus plumchrus C-5     | 70                | 64.0        | 369          | 5353       | 13.6  |
| Neocalanus plumchrus C-4     | 68                | 64.0        | 359          | 5200       | 13.2  |
| Acartia spp.                 | 40                | 64.0        | 211          | 3059       | 7.8   |
| Calanus marshallae - adult F | 39                | 64.0        | 206          | 2982       | 7.6   |
| Pseudocalanus spp. C-5 M     | 33                | 64.0        | 174          | 2523       | 6.4   |
| Pseudocalanus spp. C-5 F     | 26                | 64.0        | 137          | 1988       | 5.1   |
| Metridia pacifica - adult F  | 25                | 64.0        | 132          | 1912       | 4.9   |
| Pseudocalanus spp. - adult M | 22                | 64.0        | 116          | 1682       | 4.3   |
| Metriididae C-3              | 18                | 64.0        | 95           | 1376       | 3.5   |
| Neocalanus plumchrus C-3     | 129               | 7.1         | 75           | 1094       | 2.8   |
| Metridia pacifica C-5 M      | 10                | 64.0        | 53           | 765        | 1.9   |
| Metridia pacifica C-5 F      | 10                | 64.0        | 53           | 765        | 1.9   |
| Metridia pacifica C-4        | 10                | 64.0        | 53           | 765        | 1.9   |
| Other Copepoda <2mm          | 7                 | 64.0        | 37           | 535        | 1.4   |
| Calanus marshallae C-5       | 6                 | 64.0        | 32           | 459        | 1.2   |
| Pseudocalanus spp. C-4 F     | 6                 | 64.0        | 32           | 459        | 1.2   |
| Metridia pacifica - adult M  | 5                 | 64.0        | 26           | 382        | 1.0   |
| Thecosomata <5mm             | 4                 | 64.0        | 21           | 306        | 0.8   |
| Larvacea                     | 3                 | 64.0        | 16           | 229        | 0.6   |
| Other Copepoda 2-5mm         | 3                 | 64.0        | 16           | 229        | 0.6   |
| Neocalanus cristatus C-4     | 41                | 4.0         | 14           | 196        | 0.5   |
| Oithona spp.                 | 20                | 7.1         | 12           | 170        | 0.4   |
| Ostracoda <5mm               | 2                 | 64.0        | 11           | 153        | 0.4   |
| Pseudocalanus spp. C-4 M     | 2                 | 64.0        | 11           | 153        | 0.4   |
| Chaetognatha <5mm            | 2                 | 64.0        | 11           | 153        | 0.4   |
| Neocalanus plumchrus C-2     | 16                | 7.1         | 9            | 136        | 0.3   |
| Neocalanus cristatus C-5     | 24                | 4.0         | 8            | 115        | 0.3   |
| Chaetognatha 5-20mm          | 19                | 4.0         | 6            | 91         | 0.2   |
| Calanus marshallae - adult M | 1                 | 64.0        | 5            | 76         | 0.2   |
| Anomura - larva              | 1                 | 64.0        | 5            | 76         | 0.2   |
| Cirripedia - nauplius <5mm   | 1                 | 64.0        | 5            | 76         | 0.2   |
| Natantia - larva             | 1                 | 64.0        | 5            | 76         | 0.2   |
| Cnidaria - medusa >5mm       | 11                | 4.0         | 4            | 53         | 0.1   |
| Thysanoessa inermis A&J      | 11                | 4.0         | 4            | 53         | 0.1   |
| Calanus marshallae C-3       | 4                 | 7.1         | 2            | 34         | 0.1   |
| Thysanoessa spinifera A&J    | 6                 | 4.0         | 2            | 29         | 0.1   |
| Calanus pacificus C-5        | 3                 | 7.1         | 2            | 25         | 0.1   |
| Calanus marshallae C-1       | 2                 | 7.1         | 1            | 17         | < 0.1 |
| Euphausia pacifica A&J       | 3                 | 4.0         | 1            | 14         | < 0.1 |
| Other Copepoda >5mm          | 2                 | 4.0         | 1            | 10         | < 0.1 |
| Eucalanus bungii C-5 M       | 2                 | 4.0         | 1            | 10         | < 0.1 |
| Eucalanus bungii - adult F   | 2                 | 4.0         | 1            | 10         | < 0.1 |
| Eucalanus bungii C-3         | 1                 | 7.1         | 1            | 8          | < 0.1 |
| Calanus pacificus - adult F  | 1                 | 7.1         | 1            | 8          | < 0.1 |
| Eucalanus bungii C-2         | 1                 | 7.1         | 1            | 8          | < 0.1 |

|                        |   |       |       |       |       |
|------------------------|---|-------|-------|-------|-------|
| Eucalanus bungii C-5 F | 1 | 4.0   | < 1   | 5     | < 0.1 |
| Gammaridea >5mm        | 1 | 4.0   | < 1   | 5     | < 0.1 |
|                        |   | ----- | ----- | ----- |       |
|                        |   | 2712  | 39329 | 100.  |       |

STA. G099A      56 24.2 N      156 35.0 W      08 May 85      1:53

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
201                      0 - 176                  245.8                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F | 46                | 256.0       | 479          | 8431       | 14.8  |
| Neocalanus plumchrus C-4     | 42                | 256.0       | 437          | 7698       | 13.5  |
| Neocalanus plumchrus C-5     | 41                | 256.0       | 427          | 7515       | 13.2  |
| Metridia pacifica - adult F  | 41                | 256.0       | 427          | 7515       | 13.2  |
| Pseudocalanus spp. C-5 F     | 22                | 256.0       | 229          | 4032       | 7.1   |
| Metridia pacifica C-4        | 17                | 256.0       | 177          | 3116       | 5.5   |
| Pseudocalanus spp. - adult M | 15                | 256.0       | 156          | 2749       | 4.8   |
| Other Copepoda <2mm          | 13                | 256.0       | 135          | 2383       | 4.2   |
| Metridia pacifica C-5 F      | 13                | 256.0       | 135          | 2383       | 4.2   |
| Neocalanus plumchrus C-3     | 59                | 51.2        | 123          | 2163       | 3.8   |
| Pseudocalanus spp. C-5 M     | 10                | 256.0       | 104          | 1833       | 3.2   |
| Metridia pacifica C-5 M      | 7                 | 256.0       | 73           | 1283       | 2.2   |
| Metridia pacifica - adult M  | 6                 | 256.0       | 62           | 1100       | 1.9   |
| Calanus marshallae - adult F | 24                | 51.2        | 50           | 880        | 1.5   |
| Metriididae C-3              | 3                 | 256.0       | 31           | 550        | 1.0   |
| Acartia spp.                 | 10                | 51.2        | 21           | 367        | 0.6   |
| Pseudocalanus spp. C-4 M     | 2                 | 256.0       | 21           | 367        | 0.6   |
| Pseudocalanus spp. C-4 F     | 2                 | 256.0       | 21           | 367        | 0.6   |
| Oithona spp.                 | 9                 | 51.2        | 19           | 330        | 0.6   |
| Neocalanus plumchrus C-2     | 9                 | 51.2        | 19           | 330        | 0.6   |
| Neocalanus cristatus C-4     | 49                | 8.0         | 16           | 281        | 0.5   |
| Gammaridea <5mm              | 1                 | 256.0       | 10           | 183        | 0.3   |
| Ostracoda <5mm               | 1                 | 256.0       | 10           | 183        | 0.3   |
| Other Copepoda 2-5mm         | 1                 | 256.0       | 10           | 183        | 0.3   |
| Chaetognatha 5-20mm          | 32                | 8.0         | 10           | 183        | 0.3   |
| Calanus marshallae C-4       | 4                 | 51.2        | 8            | 147        | 0.3   |
| Neocalanus cristatus C-5     | 16                | 8.0         | 5            | 92         | 0.2   |
| Calanus pacificus C-5        | 2                 | 51.2        | 4            | 73         | 0.1   |
| Calanus pacificus - adult F  | 2                 | 51.2        | 4            | 73         | 0.1   |
| Calanus pacificus - adult M  | 1                 | 51.2        | 2            | 37         | 0.1   |
| Calanus marshallae - adult M | 1                 | 51.2        | 2            | 37         | 0.1   |
| Calanus marshallae C-5       | 1                 | 51.2        | 2            | 37         | 0.1   |
| Cnidaria - medusa >5mm       | 6                 | 8.0         | 2            | 34         | 0.1   |
| Other Copepoda >5mm          | 5                 | 8.0         | 2            | 29         | 0.1   |
| Siphonophora >5mm            | 5                 | 8.0         | 2            | 29         | 0.1   |
| Gammaridea >5mm              | 5                 | 8.0         | 2            | 29         | 0.1   |
| Eucalanus bungii - adult F   | 2                 | 8.0         | 1            | 11         | < 0.1 |
| Hyperiididae >5mm            | 1                 | 8.0         | < 1          | 6          | < 0.1 |
| Thysanoessa longipes A&J     | 1                 | 8.0         | < 1          | 6          | < 0.1 |
| Chaetognatha >20mm           | 1                 | 8.0         | < 1          | 6          | < 0.1 |
| Thysanoessa spinifera A&J    | 1                 | 8.0         | < 1          | 6          | < 0.1 |
|                              |                   |             | 3242         | 57054      | 100.  |



STA. G100A 56 21.0 N 156 27.0 W 08 May 85 2:52

DEPTH 234 SAMPLING INTERVAL 0 - 202 VOLUME FILTERED 179.3 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 46                | 256.0       | 657          | 13264      | 13.7  |
| Metridia pacifica - adult F  | 36                | 256.0       | 514          | 10380      | 10.7  |
| Pseudocalanus spp. - adult F | 32                | 256.0       | 457          | 9227       | 9.5   |
| Neocalanus plumchrus C-5     | 27                | 256.0       | 385          | 7785       | 8.0   |
| Metridia pacifica - adult M  | 25                | 256.0       | 357          | 7208       | 7.4   |
| Other Copepoda <2mm          | 19                | 256.0       | 271          | 5478       | 5.6   |
| Metridia pacifica C-5 F      | 17                | 256.0       | 243          | 4902       | 5.0   |
| Ostracoda <5mm               | 17                | 256.0       | 243          | 4902       | 5.0   |
| Other Copepoda 2-5mm         | 15                | 256.0       | 214          | 4325       | 4.5   |
| Pseudocalanus spp. C-5 F     | 14                | 256.0       | 200          | 4037       | 4.2   |
| Pseudocalanus spp. C-5 M     | 13                | 256.0       | 186          | 3748       | 3.9   |
| Metridia pacifica C-5 M      | 10                | 256.0       | 143          | 2883       | 3.0   |
| Neocalanus plumchrus C-3     | 48                | 51.2        | 137          | 2768       | 2.9   |
| Metridia pacifica C-4        | 9                 | 256.0       | 128          | 2595       | 2.7   |
| Oithona spp.                 | 41                | 51.2        | 117          | 2364       | 2.4   |
| Gammaridea <5mm              | 6                 | 256.0       | 86           | 1730       | 1.8   |
| Pseudocalanus spp. - adult M | 6                 | 256.0       | 86           | 1730       | 1.8   |
| Calanus marshallae - adult F | 16                | 51.2        | 46           | 923        | 1.0   |
| Mysidacea <5mm               | 3                 | 256.0       | 43           | 865        | 0.9   |
| Acartia spp.                 | 12                | 51.2        | 34           | 692        | 0.7   |
| Neocalanus plumchrus C-2     | 10                | 51.2        | 29           | 577        | 0.6   |
| Calanus pacificus C-5        | 10                | 51.2        | 29           | 577        | 0.6   |
| Gammaridea >5mm              | 24                | 16.0        | 21           | 433        | 0.4   |
| Neocalanus cristatus C-5     | 22                | 16.0        | 20           | 396        | 0.4   |
| Chaetognatha 5-20mm          | 19                | 16.0        | 17           | 342        | 0.4   |
| Metriididae C-3              | 1                 | 256.0       | 14           | 288        | 0.3   |
| Pseudocalanus spp. C-4 M     | 1                 | 256.0       | 14           | 288        | 0.3   |
| Thecosomata <5mm             | 1                 | 256.0       | 14           | 288        | 0.3   |
| Pseudocalanus spp. C-4 F     | 1                 | 256.0       | 14           | 288        | 0.3   |
| Calanus marshallae - adult M | 5                 | 51.2        | 14           | 288        | 0.3   |
| Neocalanus cristatus C-4     | 15                | 16.0        | 13           | 270        | 0.3   |
| Euphausia pacifica A&J       | 8                 | 16.0        | 7            | 144        | 0.1   |
| Other Copepoda >5mm          | 7                 | 16.0        | 6            | 126        | 0.1   |
| Calanus pacificus - adult F  | 2                 | 51.2        | 6            | 115        | 0.1   |
| Calanus pacificus - adult M  | 2                 | 51.2        | 6            | 115        | 0.1   |
| Eucalanus bungii C-5 F       | 5                 | 16.0        | 4            | 90         | 0.1   |
| Eucalanus bungii - adult F   | 5                 | 16.0        | 4            | 90         | 0.1   |
| Mysidacea >5mm               | 5                 | 16.0        | 4            | 90         | 0.1   |
| Chaetognatha >20mm           | 4                 | 16.0        | 4            | 72         | 0.1   |
| Calanus marshallae C-4       | 1                 | 51.2        | 3            | 58         | 0.1   |
| Euphausiacea - calyptopis 1  | 1                 | 51.2        | 3            | 58         | 0.1   |
| Calanus marshallae C-5       | 1                 | 51.2        | 3            | 58         | 0.1   |
| Calanus marshallae C-2       | 1                 | 51.2        | 3            | 58         | 0.1   |
| Calanus marshallae C-3       | 1                 | 51.2        | 3            | 58         | 0.1   |
| Cnidaria - medusa >5mm       | 2                 | 16.0        | 2            | 36         | < 0.1 |
| Siphonophora >5mm            | 2                 | 16.0        | 2            | 36         | < 0.1 |

Polychaeta &gt;5mm

|   |       |       |       |       |
|---|-------|-------|-------|-------|
| 1 | 16.0  | 1     | 18    | < 0.1 |
|   | ----- | ----- | ----- | ----- |
|   | 4805  | 97066 | 100.  |       |

STA. G101A      56 17.3 N      156 20.0 W      08 May 85      3:58

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
283                      0 - 244                  199.1                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Ostracoda <5mm               | 84                | 128.0       | 540          | 13177      | 12.4  |
| Other Copepoda 2-5mm         | 80                | 128.0       | 514          | 12549      | 11.8  |
| Metridia pacifica - adult F  | 80                | 128.0       | 514          | 12549      | 11.8  |
| Metridia pacifica - adult M  | 70                | 128.0       | 450          | 10981      | 10.3  |
| Pseudocalanus spp. - adult F | 51                | 128.0       | 328          | 8000       | 7.5   |
| Neocalanus plumchrus C-4     | 36                | 128.0       | 231          | 5647       | 5.3   |
| Neocalanus plumchrus C-5     | 35                | 128.0       | 225          | 5490       | 5.2   |
| Calanus marshallae - adult F | 30                | 128.0       | 193          | 4706       | 4.4   |
| Calanus pacificus C-5        | 29                | 128.0       | 186          | 4549       | 4.3   |
| Oithona spp.                 | 26                | 128.0       | 167          | 4079       | 3.8   |
| Other Copepoda <2mm          | 17                | 128.0       | 109          | 2667       | 2.5   |
| Metridia pacifica C-5 F      | 16                | 128.0       | 103          | 2510       | 2.4   |
| Pseudocalanus spp. C-5 M     | 14                | 128.0       | 90           | 2196       | 2.1   |
| Gammaridea <5mm              | 14                | 128.0       | 90           | 2196       | 2.1   |
| Metridia pacifica C-5 M      | 12                | 128.0       | 77           | 1882       | 1.8   |
| Pseudocalanus spp. C-5 F     | 12                | 128.0       | 77           | 1882       | 1.8   |
| Pseudocalanus spp. - adult M | 10                | 128.0       | 64           | 1569       | 1.5   |
| Neocalanus plumchrus C-3     | 7                 | 128.0       | 45           | 1098       | 1.0   |
| Acartia spp.                 | 7                 | 128.0       | 45           | 1098       | 1.0   |
| Mysidacea <5mm               | 6                 | 128.0       | 39           | 941        | 0.9   |
| Metridia pacifica C-4        | 5                 | 128.0       | 32           | 784        | 0.7   |
| Neocalanus cristatus C-5     | 37                | 16.0        | 30           | 726        | 0.7   |
| Thecosomata <5mm             | 4                 | 128.0       | 26           | 627        | 0.6   |
| Chaetognatha 5-20mm          | 27                | 16.0        | 22           | 529        | 0.5   |
| Gammaridea >5mm              | 27                | 16.0        | 22           | 529        | 0.5   |
| Eucalanus bungii - adult F   | 17                | 16.0        | 14           | 333        | 0.3   |
| Calanus marshallae - adult M | 2                 | 128.0       | 13           | 314        | 0.3   |
| Hyperiididae <5mm            | 2                 | 128.0       | 13           | 314        | 0.3   |
| Neocalanus plumchrus C-2     | 2                 | 128.0       | 13           | 314        | 0.3   |
| Neocalanus cristatus C-4     | 10                | 16.0        | 8            | 196        | 0.2   |
| Calanus pacificus - adult F  | 1                 | 128.0       | 6            | 157        | 0.1   |
| Pseudocalanus spp. C-4 M     | 1                 | 128.0       | 6            | 157        | 0.1   |
| Brachyura - larva            | 1                 | 128.0       | 6            | 157        | 0.1   |
| Calanus marshallae C-5       | 1                 | 128.0       | 6            | 157        | 0.1   |
| Metriididae C-3              | 1                 | 128.0       | 6            | 157        | 0.1   |
| Cnidaria - medusa >5mm       | 8                 | 16.0        | 6            | 157        | 0.1   |
| Gastropoda <5mm              | 1                 | 128.0       | 6            | 157        | 0.1   |
| Natantia - larva             | 1                 | 128.0       | 6            | 157        | 0.1   |
| Neocalanus cristatus C-3     | 1                 | 128.0       | 6            | 157        | 0.1   |
| Other Copepoda >5mm          | 5                 | 16.0        | 4            | 98         | 0.1   |
| Chaetognatha >20mm           | 3                 | 16.0        | 2            | 59         | 0.1   |
| Hyperiididae >5mm            | 3                 | 16.0        | 2            | 59         | 0.1   |
| Polychaeta >5mm              | 2                 | 16.0        | 2            | 39         | < 0.1 |
| Eucalanus bungii C-5 F       | 2                 | 16.0        | 2            | 39         | < 0.1 |
| Eucalanus bungii C-5 M       | 1                 | 16.0        | 1            | 20         | < 0.1 |
| Thysanoessa spinifera A&J    | 1                 | 16.0        | 1            | 20         | < 0.1 |

Siphonophora >5mm  
Nematoda >5mm

|   |      |       |        |       |
|---|------|-------|--------|-------|
| 1 | 16.0 | 1     | 20     | < 0.1 |
| 1 | 16.0 | 1     | 20     | < 0.1 |
|   |      | ----- | -----  | ----- |
|   |      | 4353  | 106219 | 100.  |

STA. G104A      56 10.1 N      156 32.0 W      08 May 85      7:12

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
220                      0 - 88                      143.2                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 101               | 64.0        | 451          | 3972       | 22.6  |
| Metridia pacifica - adult F  | 64                | 64.0        | 286          | 2517       | 14.3  |
| Neocalanus plumchrus C-5     | 42                | 64.0        | 188          | 1652       | 9.4   |
| Neocalanus plumchrus C-3     | 40                | 64.0        | 179          | 1573       | 8.9   |
| Pseudocalanus spp. - adult F | 29                | 64.0        | 130          | 1140       | 6.5   |
| Metridia pacifica C-5 F      | 26                | 64.0        | 116          | 1022       | 5.8   |
| Pseudocalanus spp. C-5 M     | 22                | 64.0        | 98           | 865        | 4.9   |
| Other Copepoda <2mm          | 19                | 64.0        | 85           | 747        | 4.3   |
| Pseudocalanus spp. - adult M | 13                | 64.0        | 58           | 511        | 2.9   |
| Pseudocalanus spp. C-5 F     | 11                | 64.0        | 49           | 433        | 2.5   |
| Pseudocalanus spp. C-4 F     | 11                | 64.0        | 49           | 433        | 2.5   |
| Metridia pacifica C-4        | 9                 | 64.0        | 40           | 354        | 2.0   |
| Neocalanus plumchrus C-2     | 8                 | 64.0        | 36           | 315        | 1.8   |
| Metridia pacifica C-5 M      | 6                 | 64.0        | 27           | 236        | 1.3   |
| Other Copepoda 2-5mm         | 5                 | 64.0        | 22           | 197        | 1.1   |
| Ostracoda <5mm               | 4                 | 64.0        | 18           | 157        | 0.9   |
| Metridia pacifica - adult M  | 4                 | 64.0        | 18           | 157        | 0.9   |
| Acartia spp.                 | 32                | 7.1         | 16           | 140        | 0.8   |
| Pseudocalanus spp. C-4 M     | 3                 | 64.0        | 13           | 118        | 0.7   |
| ?Pseudocalanus spp. C-3      | 3                 | 64.0        | 13           | 118        | 0.7   |
| Thecosomata <5mm             | 3                 | 64.0        | 13           | 118        | 0.7   |
| Oithona spp.                 | 25                | 7.1         | 12           | 109        | 0.6   |
| Neocalanus cristatus C-4     | 41                | 4.0         | 11           | 101        | 0.6   |
| Other Copepoda damaged       | 2                 | 64.0        | 9            | 79         | 0.4   |
| Larvacea                     | 2                 | 64.0        | 9            | 79         | 0.4   |
| Metriididae C-3              | 2                 | 64.0        | 9            | 79         | 0.4   |
| Calanus marshallae - adult F | 16                | 7.1         | 8            | 70         | 0.4   |
| Chaetognatha 5-20mm          | 21                | 4.0         | 6            | 52         | 0.3   |
| Gastropoda <5mm              | 1                 | 64.0        | 4            | 39         | 0.2   |
| Calanus marshallae C-2       | 1                 | 64.0        | 4            | 39         | 0.2   |
| Cirripedia - nauplius <5mm   | 1                 | 64.0        | 4            | 39         | 0.2   |
| Neocalanus cristatus C-5     | 12                | 4.0         | 3            | 29         | 0.2   |
| Thysanoessa inermis A&J      | 11                | 4.0         | 3            | 27         | 0.2   |
| Thysanoessa spinifera A&J    | 10                | 4.0         | 3            | 25         | 0.1   |
| Eucalanus bungii C-2         | 1                 | 8.0         | 1            | 5          | < 0.1 |
| Eucalanus bungii C-4 M       | 1                 | 8.0         | 1            | 5          | < 0.1 |
| Calanus pacificus C-5        | 1                 | 8.0         | 1            | 5          | < 0.1 |
| Polychaeta >5mm              | 2                 | 4.0         | 1            | 5          | < 0.1 |
| Gammaridea >5mm              | 2                 | 4.0         | 1            | 5          | < 0.1 |
| Chaetognatha >20mm           | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Cnidaria - medusa >5mm       | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Thysanoessa inspinata A&J    | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Eucalanus bungii C-5 M       | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Euphausiacea A&J damaged     | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Mysidacea >5mm               | 1                 | 4.0         | < 1          | 2          | < 0.1 |

|       |       |       |
|-------|-------|-------|
| ----- | ----- | ----- |
| 1998  | 17580 | 100.  |

STA. G105A      56 13.1 N      156 39.0 W      08 May 85      8:00

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
141                      0 - 91                      146.6                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 125               | 64.0        | 546          | 4967       | 18.8  |
| Metridia pacifica - adult F  | 108               | 64.0        | 472          | 4292       | 16.2  |
| Pseudocalanus spp. - adult F | 54                | 64.0        | 236          | 2146       | 8.1   |
| Neocalanus plumchrus C-5     | 53                | 64.0        | 231          | 2106       | 8.0   |
| Metridia pacifica C-5 F      | 44                | 64.0        | 192          | 1748       | 6.6   |
| Neocalanus plumchrus C-3     | 35                | 64.0        | 153          | 1391       | 5.3   |
| Pseudocalanus spp. - adult M | 30                | 64.0        | 131          | 1192       | 4.5   |
| Pseudocalanus spp. C-5 M     | 29                | 64.0        | 127          | 1152       | 4.4   |
| Metridia pacifica C-4        | 29                | 64.0        | 127          | 1152       | 4.4   |
| Metridia pacifica C-5 M      | 28                | 64.0        | 122          | 1113       | 4.2   |
| Other Copepoda <2mm          | 25                | 64.0        | 109          | 993        | 3.8   |
| Metriididae C-3              | 16                | 64.0        | 70           | 636        | 2.4   |
| Pseudocalanus spp. C-5 F     | 14                | 64.0        | 61           | 556        | 2.1   |
| Metridia pacifica - adult M  | 14                | 64.0        | 61           | 556        | 2.1   |
| Oithona spp.                 | 13                | 64.0        | 57           | 517        | 2.0   |
| Acartia spp.                 | 9                 | 64.0        | 39           | 358        | 1.4   |
| Thecosomata <5mm             | 7                 | 64.0        | 31           | 278        | 1.1   |
| Pseudocalanus spp. C-4 M     | 5                 | 64.0        | 22           | 199        | 0.8   |
| Neocalanus plumchrus C-2     | 4                 | 64.0        | 17           | 159        | 0.6   |
| Chaetognatha <5mm            | 3                 | 64.0        | 13           | 119        | 0.5   |
| Pseudocalanus spp. C-4 F     | 3                 | 64.0        | 13           | 119        | 0.5   |
| Larvacea                     | 2                 | 64.0        | 9            | 79         | 0.3   |
| Chaetognatha 5-20mm          | 23                | 4.0         | 6            | 57         | 0.2   |
| Neocalanus cristatus C-4     | 23                | 4.0         | 6            | 57         | 0.2   |
| Calanus marshallae - adult F | 11                | 7.1         | 5            | 48         | 0.2   |
| Natantia - larva             | 1                 | 64.0        | 4            | 40         | 0.2   |
| Thysanoessa spinifera A&J    | 16                | 4.0         | 4            | 40         | 0.2   |
| Euphausiacea - calyptopis 2  | 1                 | 64.0        | 4            | 40         | 0.2   |
| Ostracoda <5mm               | 1                 | 64.0        | 4            | 40         | 0.2   |
| Neocalanus plumchrus C-1     | 1                 | 64.0        | 4            | 40         | 0.2   |
| Neocalanus cristatus C-3     | 1                 | 64.0        | 4            | 40         | 0.2   |
| Thysanoessa inermis A&J      | 14                | 4.0         | 4            | 35         | 0.1   |
| Calanus pacificus - adult F  | 6                 | 7.1         | 3            | 26         | 0.1   |
| Neocalanus cristatus C-5     | 10                | 4.0         | 3            | 25         | 0.1   |
| Calanus pacificus C-5        | 4                 | 7.1         | 2            | 18         | 0.1   |
| Calanus marshallae C-5       | 3                 | 7.1         | 1            | 13         | 0.1   |
| Eucalanus bungii C-5 M       | 5                 | 4.0         | 1            | 12         | < 0.1 |
| Eucalanus bungii - adult F   | 5                 | 4.0         | 1            | 12         | < 0.1 |
| Cnidaria - medusa >5mm       | 4                 | 4.0         | 1            | 10         | < 0.1 |
| Euphausia pacifica A&J       | 4                 | 4.0         | 1            | 10         | < 0.1 |
| Calanus marshallae - adult M | 2                 | 7.1         | 1            | 9          | < 0.1 |
| Gammaridea >5mm              | 3                 | 4.0         | 1            | 7          | < 0.1 |
| Siphonophora >5mm            | 2                 | 4.0         | 1            | 5          | < 0.1 |
| Eucalanus bungii C-5 F       | 2                 | 4.0         | 1            | 5          | < 0.1 |
| Calanus pacificus - adult M  | 1                 | 7.1         | < 1          | 4          | < 0.1 |
| Calanus marshallae C-4       | 1                 | 7.1         | < 1          | 4          | < 0.1 |

Eucalanus bungii C-4 F  
 Polychaeta >5mm

|   |       |     |       |       |
|---|-------|-----|-------|-------|
| 1 | 7.1   | < 1 | 4     | < 0.1 |
| 1 | 4.0   | < 1 | 2     | < 0.1 |
|   | ----- |     | ----- | ----- |
|   | 2905  |     | 26433 | 100.  |



STA. G106A      56 16.8 N      156 45.0 W      08 May 85      8:42

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
86                              0 - 56                              112.3                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 60                | 32.0        | 171          | 958        | 22.6  |
| Neocalanus plumchrus C-5     | 30                | 32.0        | 86           | 479        | 11.3  |
| Pseudocalanus spp. C-5 F     | 29                | 32.0        | 83           | 463        | 10.9  |
| Pseudocalanus spp. - adult M | 24                | 32.0        | 68           | 383        | 9.0   |
| Pseudocalanus spp. - adult F | 24                | 32.0        | 68           | 383        | 9.0   |
| Neocalanus plumchrus C-3     | 19                | 32.0        | 54           | 303        | 7.1   |
| Pseudocalanus spp. C-5 M     | 16                | 32.0        | 46           | 255        | 6.0   |
| Metriididae C-3              | 11                | 32.0        | 31           | 176        | 4.1   |
| Neocalanus plumchrus C-2     | 8                 | 32.0        | 23           | 128        | 3.0   |
| Other Copepoda <2mm          | 7                 | 32.0        | 20           | 112        | 2.6   |
| Pseudocalanus spp. C-4 F     | 6                 | 32.0        | 17           | 96         | 2.3   |
| Metridia pacifica C-4        | 23                | 6.4         | 13           | 73         | 1.7   |
| Other Copepoda damaged       | 4                 | 32.0        | 11           | 64         | 1.5   |
| Thysanoessa inermis A&J      | 107               | 1.0         | 10           | 53         | 1.3   |
| Oithona spp.                 | 16                | 6.4         | 9            | 51         | 1.2   |
| Neocalanus plumchrus C-1     | 2                 | 32.0        | 6            | 32         | 0.8   |
| Metriididae C-2              | 2                 | 32.0        | 6            | 32         | 0.8   |
| Thysanoessa spinifera A&J    | 52                | 1.0         | 5            | 26         | 0.6   |
| Acartia spp.                 | 7                 | 6.4         | 4            | 22         | 0.5   |
| Metridia pacifica C-5 M      | 7                 | 6.4         | 4            | 22         | 0.5   |
| Metridia pacifica C-5 F      | 5                 | 6.4         | 3            | 16         | 0.4   |
| Pseudocalanus spp. C-4 M     | 1                 | 32.0        | 3            | 16         | 0.4   |
| Thecosomata <5mm             | 1                 | 32.0        | 3            | 16         | 0.4   |
| Cirripedia - nauplius <5mm   | 1                 | 32.0        | 3            | 16         | 0.4   |
| Neocalanus cristatus C-4     | 26                | 1.0         | 2            | 13         | 0.3   |
| Metridia pacifica - adult F  | 4                 | 6.4         | 2            | 13         | 0.3   |
| Metridia pacifica - adult M  | 3                 | 6.4         | 2            | 10         | 0.2   |
| Calanus marshallae - adult F | 3                 | 6.4         | 2            | 10         | 0.2   |
| Euphausiacea A&J damaged     | 9                 | 1.0         | 1            | 4          | 0.1   |
| Calanus marshallae - adult M | 1                 | 6.4         | 1            | 3          | 0.1   |
| Calanus pacificus - adult F  | 1                 | 6.4         | 1            | 3          | 0.1   |
| Euphausiacea - furcilia      | 1                 | 6.4         | 1            | 3          | 0.1   |
| Calanus pacificus C-5        | 1                 | 6.4         | 1            | 3          | 0.1   |
| Calanus pacificus - adult M  | 1                 | 6.4         | 1            | 3          | 0.1   |
| Chaetognatha 5-20mm          | 5                 | 1.0         | < 1          | 2          | 0.1   |
| Gymnosomata >5mm             | 1                 | 1.0         | < 1          | < 1        | < 0.1 |
| Siphonophora >5mm            | 1                 | 1.0         | < 1          | < 1        | < 0.1 |
| Eucalanus bungii - adult F   | 1                 | 1.0         | < 1          | < 1        | < 0.1 |
| Eucalanus bungii C-5 M       | 1                 | 1.0         | < 1          | < 1        | < 0.1 |
| Cnidaria - medusa >5mm       | 1                 | 1.0         | < 1          | < 1        | < 0.1 |
|                              |                   |             | 758          | 4246       | 100.  |

STA. G107A      56 19.4 N      156 53.0 W      08 May 85      9:21

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH

115                      0 - 93                      149.1                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 96                | 32.0        | 206          | 1916       | 22.2  |
| Pseudocalanus spp. C-5 F     | 42                | 32.0        | 90           | 838        | 9.7   |
| Pseudocalanus spp. - adult F | 42                | 32.0        | 90           | 838        | 9.7   |
| Neocalanus plumchrus C-3     | 40                | 32.0        | 86           | 798        | 9.2   |
| Metridia pacifica C-4        | 37                | 32.0        | 79           | 738        | 8.5   |
| Pseudocalanus spp. C-5 M     | 32                | 32.0        | 69           | 639        | 7.4   |
| Pseudocalanus spp. - adult M | 22                | 32.0        | 47           | 439        | 5.1   |
| Neocalanus plumchrus C-2     | 18                | 32.0        | 39           | 359        | 4.2   |
| Metridia pacifica C-5 M      | 16                | 32.0        | 34           | 319        | 3.7   |
| Metriididae C-3              | 66                | 6.4         | 28           | 263        | 3.0   |
| Metridia pacifica C-5 F      | 11                | 32.0        | 24           | 219        | 2.5   |
| Neocalanus plumchrus C-5     | 36                | 6.4         | 15           | 144        | 1.7   |
| Thysanoessa inermis A&J      | 56                | 4.0         | 15           | 140        | 1.6   |
| Acartia spp.                 | 31                | 6.4         | 13           | 124        | 1.4   |
| Oithona spp.                 | 29                | 6.4         | 12           | 116        | 1.3   |
| Pseudocalanus spp. C-4 M     | 24                | 6.4         | 10           | 96         | 1.1   |
| Pseudocalanus spp. C-4 F     | 24                | 6.4         | 10           | 96         | 1.1   |
| Thysanoessa spinifera A&J    | 34                | 4.0         | 9            | 85         | 1.0   |
| Other Copepoda <2mm          | 17                | 6.4         | 7            | 68         | 0.8   |
| Metridia pacifica - adult F  | 15                | 6.4         | 6            | 60         | 0.7   |
| Calanus marshallae - adult F | 14                | 6.4         | 6            | 56         | 0.6   |
| Thecosomata <5mm             | 13                | 6.4         | 6            | 52         | 0.6   |
| Natantia - larva             | 6                 | 6.4         | 3            | 24         | 0.3   |
| Calanus marshallae C-2       | 1                 | 32.0        | 2            | 20         | 0.2   |
| Neocalanus plumchrus C-1     | 1                 | 32.0        | 2            | 20         | 0.2   |
| Chaetognatha <5mm            | 5                 | 6.4         | 2            | 20         | 0.2   |
| Calanus marshallae C-1       | 1                 | 32.0        | 2            | 20         | 0.2   |
| Cirripedia - nauplius <5mm   | 4                 | 6.4         | 2            | 16         | 0.2   |
| ?Pseudocalanus spp. C-3      | 4                 | 6.4         | 2            | 16         | 0.2   |
| Gastropoda - veliger <5mm    | 3                 | 6.4         | 1            | 12         | 0.1   |
| Euphausia pacifica A&J       | 4                 | 4.0         | 1            | 10         | 0.1   |
| Invertebrata <5mm            | 2                 | 6.4         | 1            | 8          | 0.1   |
| Calanus pacificus - adult F  | 2                 | 6.4         | 1            | 8          | 0.1   |
| Larvacea                     | 2                 | 6.4         | 1            | 8          | 0.1   |
| Teleostei - larva >5mm       | 3                 | 4.0         | 1            | 7          | 0.1   |
| Chaetognatha 5-20mm          | 3                 | 4.0         | 1            | 7          | 0.1   |
| Cnidaria - medusa >5mm       | 2                 | 4.0         | 1            | 5          | 0.1   |
| Polychaeta <5mm              | 1                 | 6.4         | < 1          | 4          | < 0.1 |
| Other Copepoda damaged       | 1                 | 6.4         | < 1          | 4          | < 0.1 |
| Calanus marshallae - adult M | 1                 | 6.4         | < 1          | 4          | < 0.1 |
| Invertebrata - egg <5mm      | 1                 | 6.4         | < 1          | 4          | < 0.1 |
| Brachyura - larva            | 1                 | 6.4         | < 1          | 4          | < 0.1 |
| Eucalanus bungii C-4 M       | 1                 | 6.4         | < 1          | 4          | < 0.1 |
| Anomura - larva              | 1                 | 6.4         | < 1          | 4          | < 0.1 |
| Cnidaria - medusa <5mm       | 1                 | 6.4         | < 1          | 4          | < 0.1 |
| Metridia pacifica - adult M  | 1                 | 6.4         | < 1          | 4          | < 0.1 |

|                          |   |       |       |       |       |
|--------------------------|---|-------|-------|-------|-------|
| Gammaridea >5mm          | 1 | 4.0   | < 1   | 2     | < 0.1 |
| Euphausiacea A&J damaged | 1 | 4.0   | < 1   | 2     | < 0.1 |
| Neocalanus cristatus C-4 | 1 | 4.0   | < 1   | 2     | < 0.1 |
|                          |   | ----- | ----- | ----- | ----- |
|                          |   | 930   | 8646  | 100.  |       |

STA. G108A      56 24.1 N      156 59.0 W      08 May 85      10:27

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
145                      0 - 92                      135.8                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 117               | 64.0        | 551          | 5072       | 20.5  |
| Neocalanus plumchrus C-5     | 108               | 64.0        | 509          | 4682       | 18.9  |
| Pseudocalanus spp. - adult F | 98                | 64.0        | 462          | 4248       | 17.2  |
| Pseudocalanus spp. C-5 F     | 48                | 64.0        | 226          | 2081       | 8.4   |
| Pseudocalanus spp. C-5 M     | 38                | 64.0        | 179          | 1647       | 6.7   |
| Neocalanus plumchrus C-3     | 32                | 64.0        | 151          | 1387       | 5.6   |
| Pseudocalanus spp. - adult M | 16                | 64.0        | 75           | 694        | 2.8   |
| Other Copepoda <2mm          | 37                | 21.3        | 58           | 534        | 2.2   |
| Pseudocalanus spp. C-4 F     | 28                | 21.3        | 44           | 404        | 1.6   |
| Neocalanus plumchrus C-2     | 9                 | 64.0        | 42           | 390        | 1.6   |
| Metridia pacifica - adult F  | 25                | 21.3        | 39           | 361        | 1.5   |
| Metridia pacifica C-4        | 25                | 21.3        | 39           | 361        | 1.5   |
| Metriididae C-3              | 25                | 21.3        | 39           | 361        | 1.5   |
| Metridia pacifica C-5 F      | 19                | 21.3        | 30           | 274        | 1.1   |
| Pseudocalanus spp. C-4 M     | 17                | 21.3        | 27           | 245        | 1.0   |
| Oithona spp.                 | 17                | 21.3        | 27           | 245        | 1.0   |
| Neocalanus cristatus C-4     | 90                | 4.0         | 27           | 244        | 1.0   |
| Metridia pacifica C-5 M      | 16                | 21.3        | 25           | 231        | 0.9   |
| Thysanoessa inermis A&J      | 72                | 4.0         | 21           | 195        | 0.8   |
| Calanus marshallae - adult F | 10                | 21.3        | 16           | 144        | 0.6   |
| Acartia spp.                 | 8                 | 21.3        | 13           | 115        | 0.5   |
| Thecosomata <5mm             | 8                 | 21.3        | 13           | 115        | 0.5   |
| Metridia pacifica - adult M  | 6                 | 21.3        | 9            | 87         | 0.3   |
| ?Pseudocalanus spp. C-3      | 5                 | 21.3        | 8            | 72         | 0.3   |
| Calanus marshallae C-1       | 1                 | 64.0        | 5            | 43         | 0.2   |
| Chaetognatha 5-20mm          | 16                | 4.0         | 5            | 43         | 0.2   |
| Neocalanus plumchrus C-1     | 1                 | 64.0        | 5            | 43         | 0.2   |
| Calanus marshallae C-3       | 1                 | 64.0        | 5            | 43         | 0.2   |
| Calanus pacificus C-5        | 3                 | 21.3        | 5            | 43         | 0.2   |
| Chaetognatha <5mm            | 3                 | 21.3        | 5            | 43         | 0.2   |
| Neocalanus cristatus C-5     | 12                | 4.0         | 4            | 33         | 0.1   |
| Calanus marshallae - adult M | 2                 | 21.3        | 3            | 29         | 0.1   |
| Calanus pacificus - adult F  | 2                 | 21.3        | 3            | 29         | 0.1   |
| Thysanoessa spinifera A&J    | 8                 | 4.0         | 2            | 22         | 0.1   |
| Eucalanus bungii C-5 F       | 7                 | 4.0         | 2            | 19         | 0.1   |
| Calanus marshallae C-4       | 1                 | 21.3        | 2            | 14         | 0.1   |
| Cirripedia - cypris <5mm     | 1                 | 21.3        | 2            | 14         | 0.1   |
| Cirripedia - nauplius <5mm   | 1                 | 21.3        | 2            | 14         | 0.1   |
| Larvacea                     | 1                 | 21.3        | 2            | 14         | 0.1   |
| Eucalanus bungii C-2         | 1                 | 21.3        | 2            | 14         | 0.1   |
| Metriididae C-2              | 1                 | 21.3        | 2            | 14         | 0.1   |
| Natantia - larva             | 1                 | 21.3        | 2            | 14         | 0.1   |
| Other Copepoda damaged       | 1                 | 21.3        | 2            | 14         | 0.1   |
| Ostracoda <5mm               | 1                 | 21.3        | 2            | 14         | 0.1   |
| Bryozoa - cyphonautes <5mm   | 1                 | 21.3        | 2            | 14         | 0.1   |
| Thysanoessa raschii A&J      | 4                 | 4.0         | 1            | 11         | < 0.1 |

|                            |   |     |       |       |       |
|----------------------------|---|-----|-------|-------|-------|
| Teleostei - larva >5mm     | 3 | 4.0 | 1     | 8     | < 0.1 |
| Gammaridea >5mm            | 2 | 4.0 | 1     | 5     | < 0.1 |
| Eucalanus bungii C-5 M     | 1 | 4.0 | < 1   | 3     | < 0.1 |
| Nematoda >5mm              | 1 | 4.0 | < 1   | 3     | < 0.1 |
| Eucalanus bungii - adult F | 1 | 4.0 | < 1   | 3     | < 0.1 |
|                            |   |     | ----- | ----- | ----- |
|                            |   |     | 2691  | 24755 | 100.  |

STA. G109A      56 26.4 N      157 08.0 W      08 May 85      11:20

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
56                              0 - 57                              110.0                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F | 70                | 64.0        | 407          | 2321       | 22.4  |
| Pseudocalanus spp. C-5 F     | 38                | 64.0        | 221          | 1260       | 12.1  |
| Pseudocalanus spp. C-5 M     | 34                | 64.0        | 198          | 1128       | 10.9  |
| Other Copepoda 2-5mm         | 31                | 64.0        | 180          | 1028       | 9.9   |
| Metridia pacifica C-5 M      | 26                | 64.0        | 151          | 862        | 8.3   |
| Pseudocalanus spp. - adult M | 25                | 64.0        | 145          | 829        | 8.0   |
| Metridia pacifica C-4        | 23                | 64.0        | 134          | 763        | 7.4   |
| Neocalanus plumchrus C-4     | 74                | 12.8        | 86           | 491        | 4.7   |
| Other Copepoda <2mm          | 7                 | 64.0        | 41           | 232        | 2.2   |
| Metridia pacifica C-5 F      | 6                 | 64.0        | 35           | 199        | 1.9   |
| Metriididae C-3              | 6                 | 64.0        | 35           | 199        | 1.9   |
| Metridia pacifica - adult M  | 5                 | 64.0        | 29           | 166        | 1.6   |
| Pseudocalanus spp. C-4 M     | 4                 | 64.0        | 23           | 133        | 1.3   |
| Neocalanus plumchrus C-5     | 18                | 12.8        | 21           | 119        | 1.2   |
| Metridia pacifica - adult F  | 3                 | 64.0        | 17           | 99         | 1.0   |
| Pseudocalanus spp. C-4 F     | 3                 | 64.0        | 17           | 99         | 1.0   |
| Chaetognatha <5mm            | 2                 | 64.0        | 12           | 66         | 0.6   |
| Neocalanus plumchrus C-3     | 40                | 3.0         | 11           | 62         | 0.6   |
| Acartia spp.                 | 33                | 3.0         | 9            | 51         | 0.5   |
| Calanus marshallae - adult F | 31                | 3.0         | 8            | 48         | 0.5   |
| Thysanoessa inermis A&J      | 87                | 1.0         | 8            | 45         | 0.4   |
| Brachyura - larva            | 1                 | 64.0        | 6            | 33         | 0.3   |
| Anomura - larva              | 1                 | 64.0        | 6            | 33         | 0.3   |
| Natantia - larva             | 1                 | 64.0        | 6            | 33         | 0.3   |
| Neocalanus cristatus C-4     | 34                | 1.0         | 3            | 18         | 0.2   |
| Chaetognatha 5-20mm          | 23                | 1.0         | 2            | 12         | 0.1   |
| Oithona spp.                 | 7                 | 3.0         | 2            | 11         | 0.1   |
| Euphausiacea A&J damaged     | 21                | 1.0         | 2            | 11         | 0.1   |
| Neocalanus cristatus C-5     | 13                | 1.0         | 1            | 7          | 0.1   |
| Neocalanus plumchrus C-2     | 3                 | 3.0         | 1            | 5          | < 0.1 |
| Calanus marshallae - adult M | 1                 | 3.0         | < 1          | 2          | < 0.1 |
| Calanus pacificus - adult F  | 1                 | 3.0         | < 1          | 2          | < 0.1 |
| Calanus marshallae C-5       | 1                 | 3.0         | < 1          | 2          | < 0.1 |
| Eucalanus bungii - adult F   | 3                 | 1.0         | < 1          | 2          | < 0.1 |
| Eucalanus bungii C-5 F       | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Polychaeta >5mm              | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Chaetognatha >20mm           | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Thysanoessa spinifera A&J    | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                              |                   |             | 1820         | 10373      | 100.  |

STA. G112A      56 12.0 N      157 05.0 W      08 May 85      14:13

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
98                              0 - 84                              147.4                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 155               | 16.0        | 168          | 1413       | 31.0  |
| Neocalanus plumchrus C-3     | 63                | 16.0        | 68           | 574        | 12.6  |
| Pseudocalanus spp. - adult F | 54                | 16.0        | 59           | 492        | 10.8  |
| Pseudocalanus spp. C-5 F     | 43                | 16.0        | 47           | 392        | 8.6   |
| Pseudocalanus spp. C-5 M     | 43                | 16.0        | 47           | 392        | 8.6   |
| Neocalanus plumchrus C-2     | 20                | 16.0        | 22           | 182        | 4.0   |
| Neocalanus plumchrus C-5     | 19                | 16.0        | 21           | 173        | 3.8   |
| Pseudocalanus spp. - adult M | 16                | 16.0        | 17           | 146        | 3.2   |
| Calanus marshallae - adult F | 12                | 16.0        | 13           | 109        | 2.4   |
| Acartia spp.                 | 12                | 16.0        | 13           | 109        | 2.4   |
| Metriididae C-3              | 9                 | 16.0        | 10           | 82         | 1.8   |
| Pseudocalanus spp. C-4 M     | 7                 | 16.0        | 8            | 64         | 1.4   |
| Pseudocalanus spp. C-4 F     | 7                 | 16.0        | 8            | 64         | 1.4   |
| Other Copepoda <2mm          | 7                 | 16.0        | 8            | 64         | 1.4   |
| Oithona spp.                 | 4                 | 16.0        | 4            | 36         | 0.8   |
| Thecosomata <5mm             | 3                 | 16.0        | 3            | 27         | 0.6   |
| Calanus marshallae - adult M | 3                 | 16.0        | 3            | 27         | 0.6   |
| Metridia pacifica C-5 M      | 2                 | 16.0        | 2            | 18         | 0.4   |
| Calanus marshallae C-1       | 2                 | 16.0        | 2            | 18         | 0.4   |
| Neocalanus plumchrus C-1     | 2                 | 16.0        | 2            | 18         | 0.4   |
| Thysanoessa spinifera A&J    | 25                | 1.0         | 2            | 14         | 0.3   |
| Neocalanus cristatus C-4     | 22                | 1.0         | 1            | 13         | 0.3   |
| Teleostei - larva >5mm       | 19                | 1.0         | 1            | 11         | 0.2   |
| Chaetognatha 5-20mm          | 16                | 1.0         | 1            | 9          | 0.2   |
| Chaetognatha <5mm            | 1                 | 16.0        | 1            | 9          | 0.2   |
| Anomura - larva              | 1                 | 16.0        | 1            | 9          | 0.2   |
| Calanus marshallae C-2       | 1                 | 16.0        | 1            | 9          | 0.2   |
| Metridia pacifica C-5 F      | 1                 | 16.0        | 1            | 9          | 0.2   |
| Metridia pacifica C-4        | 1                 | 16.0        | 1            | 9          | 0.2   |
| Thysanoessa inermis A&J      | 16                | 1.0         | 1            | 9          | 0.2   |
| Gastropoda - veliger <5mm    | 1                 | 16.0        | 1            | 9          | 0.2   |
| Calanus marshallae C-5       | 1                 | 16.0        | 1            | 9          | 0.2   |
| Invertebrata <5mm            | 1                 | 16.0        | 1            | 9          | 0.2   |
| Cirripedia - cypris <5mm     | 1                 | 16.0        | 1            | 9          | 0.2   |
| Other Copepoda 2-5mm         | 1                 | 16.0        | 1            | 9          | 0.2   |
| Eucalanus bungii - adult F   | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Eucalanus bungii - adult M   | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Eucalanus bungii C-5 F       | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Cnidaria - medusa >5mm       | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Hyperiididea >5mm            | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Eucalanus bungii C-5 M       | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                              |                   |             | 542          | 4556       | 100.  |

STA. G115A      55 50.9 N      156 49.0 W      08 May 85      17:24

DEPTH              SAMPLING INTERVAL      VOLUME FILTERED      NET MESH

175                      0 - 90                      144.2                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 188               | 64.0        | 835          | 7512       | 43.0  |
| Neocalanus plumchrus C-5     | 116               | 64.0        | 515          | 4635       | 26.5  |
| Pseudocalanus spp. - adult F | 35                | 64.0        | 155          | 1398       | 8.0   |
| Neocalanus plumchrus C-3     | 26                | 64.0        | 115          | 1039       | 5.9   |
| Pseudocalanus spp. C-5 F     | 22                | 64.0        | 98           | 879        | 5.0   |
| Pseudocalanus spp. C-5 M     | 14                | 64.0        | 62           | 559        | 3.2   |
| Acartia spp.                 | 131               | 3.8         | 35           | 311        | 1.8   |
| Neocalanus plumchrus C-2     | 7                 | 64.0        | 31           | 280        | 1.6   |
| Calanus marshallae - adult F | 57                | 3.8         | 15           | 135        | 0.8   |
| Pseudocalanus spp. - adult M | 3                 | 64.0        | 13           | 120        | 0.7   |
| Chaetognatha <5mm            | 3                 | 64.0        | 13           | 120        | 0.7   |
| Hyperiidia <5mm              | 2                 | 64.0        | 9            | 80         | 0.5   |
| Neocalanus cristatus C-4     | 105               | 1.0         | 7            | 66         | 0.4   |
| Thecosomata <5mm             | 1                 | 64.0        | 4            | 40         | 0.2   |
| Calanus marshallae C-2       | 1                 | 64.0        | 4            | 40         | 0.2   |
| Pseudocalanus spp. C-4 M     | 1                 | 64.0        | 4            | 40         | 0.2   |
| Calanus marshallae C-3       | 1                 | 64.0        | 4            | 40         | 0.2   |
| Cirripedia - cypris <5mm     | 1                 | 64.0        | 4            | 40         | 0.2   |
| Other Copepoda 2-5mm         | 1                 | 64.0        | 4            | 40         | 0.2   |
| Calanus pacificus C-5        | 8                 | 3.8         | 2            | 19         | 0.1   |
| Oithona spp.                 | 7                 | 3.8         | 2            | 17         | 0.1   |
| Chaetognatha 5-20mm          | 19                | 1.0         | 1            | 12         | 0.1   |
| Calanus marshallae C-5       | 5                 | 3.8         | 1            | 12         | 0.1   |
| Calanus marshallae - adult M | 3                 | 3.8         | 1            | 7          | < 0.1 |
| Metridia pacifica C-4        | 3                 | 3.8         | 1            | 7          | < 0.1 |
| Thysanoessa spinifera A&J    | 8                 | 1.0         | 1            | 5          | < 0.1 |
| Neocalanus cristatus C-5     | 8                 | 1.0         | 1            | 5          | < 0.1 |
| Calanus pacificus - adult F  | 2                 | 3.8         | 1            | 5          | < 0.1 |
| Calanus marshallae C-4       | 2                 | 3.8         | 1            | 5          | < 0.1 |
| Eucalanus bungii C-3         | 1                 | 3.8         | < 1          | 2          | < 0.1 |
| Metridia pacifica - adult F  | 1                 | 3.8         | < 1          | 2          | < 0.1 |
| Euphausiacea - furcilia      | 1                 | 3.8         | < 1          | 2          | < 0.1 |
| Eucalanus bungii C-2         | 1                 | 3.8         | < 1          | 2          | < 0.1 |
| Metridia pacifica C-5 M      | 1                 | 3.8         | < 1          | 2          | < 0.1 |
| Calanus pacificus C-4        | 1                 | 3.8         | < 1          | 2          | < 0.1 |
| Metridiidae C-3              | 1                 | 3.8         | < 1          | 2          | < 0.1 |
| Calanus pacificus - adult M  | 1                 | 3.8         | < 1          | 2          | < 0.1 |
| Gymnosomata >5mm             | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Eucalanus bungii - adult F   | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                              |                   |             | 1943         | 17487      | 100.  |



STA. G116A      55 54.9 N      156 56.0 W      08 May 85      18:19

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
143                              0 - 91                              158.0                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 186               | 128.0       | 1506         | 13709      | 43.7  |
| Neocalanus plumchrus C-5     | 113               | 128.0       | 915          | 8329       | 26.6  |
| Pseudocalanus spp. - adult F | 30                | 128.0       | 243          | 2211       | 7.1   |
| Neocalanus plumchrus C-3     | 29                | 128.0       | 235          | 2137       | 6.8   |
| Pseudocalanus spp. C-5 F     | 19                | 128.0       | 154          | 1400       | 4.5   |
| Pseudocalanus spp. C-5 M     | 16                | 128.0       | 130          | 1179       | 3.8   |
| Neocalanus plumchrus C-2     | 7                 | 128.0       | 57           | 516        | 1.6   |
| Other Copepoda damaged       | 5                 | 128.0       | 40           | 369        | 1.2   |
| Acartia spp.                 | 4                 | 128.0       | 32           | 295        | 0.9   |
| Neocalanus cristatus C-4     | 106               | 4.0         | 27           | 244        | 0.8   |
| Pseudocalanus spp. - adult M | 3                 | 128.0       | 24           | 221        | 0.7   |
| Calanus marshallae C-3       | 2                 | 128.0       | 16           | 147        | 0.5   |
| Calanus marshallae C-2       | 2                 | 128.0       | 16           | 147        | 0.5   |
| Calanus marshallae - adult F | 18                | 14.2        | 16           | 147        | 0.5   |
| Calanus marshallae C-1       | 1                 | 128.0       | 8            | 74         | 0.2   |
| Oithona spp.                 | 1                 | 128.0       | 8            | 74         | 0.2   |
| Neocalanus plumchrus C-1     | 1                 | 128.0       | 8            | 74         | 0.2   |
| Thysanoessa spinifera A&J    | 11                | 4.0         | 3            | 25         | 0.1   |
| Calanus pacificus - adult F  | 2                 | 14.2        | 2            | 16         | 0.1   |
| Calanus pacificus C-5        | 1                 | 14.2        | 1            | 8          | < 0.1 |
| Calanus marshallae C-4       | 1                 | 14.2        | 1            | 8          | < 0.1 |
| Calanus pacificus - adult M  | 1                 | 14.2        | 1            | 8          | < 0.1 |
| Neocalanus cristatus C-5     | 3                 | 4.0         | 1            | 7          | < 0.1 |
| Chaetognatha 5-20mm          | 2                 | 4.0         | 1            | 5          | < 0.1 |
| Thysanoessa inermis A&J      | 2                 | 4.0         | 1            | 5          | < 0.1 |
| Hyperiididea >5mm            | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Eucalanus bungii - adult F   | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Eucalanus bungii C-5 F       | 1                 | 4.0         | < 1          | 2          | < 0.1 |
|                              |                   |             | 3446         | 31363      | 100.  |

STA. G117A      55 58.4 N      157 03.0 W      08 May 85      19:18

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
95                              0 - 83                              145.3                              333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 146               | 32.0        | 322          | 2669       | 33.9  |
| Pseudocalanus spp. - adult F | 72                | 32.0        | 159          | 1316       | 16.7  |
| Neocalanus plumchrus C-3     | 46                | 32.0        | 101          | 841        | 10.7  |
| Pseudocalanus spp. C-5 M     | 38                | 32.0        | 84           | 695        | 8.8   |
| Neocalanus plumchrus C-5     | 29                | 32.0        | 64           | 530        | 6.7   |
| Pseudocalanus spp. C-5 F     | 24                | 32.0        | 53           | 439        | 5.6   |
| Metridia pacifica C-4        | 35                | 16.0        | 39           | 320        | 4.1   |
| Pseudocalanus spp. - adult M | 13                | 32.0        | 29           | 238        | 3.0   |
| Acartia spp.                 | 26                | 16.0        | 29           | 238        | 3.0   |
| Neocalanus plumchrus C-2     | 10                | 32.0        | 22           | 183        | 2.3   |
| Metriididae C-3              | 9                 | 16.0        | 10           | 82         | 1.0   |
| Neocalanus cristatus C-4     | 78                | 1.0         | 5            | 45         | 0.6   |
| Calanus marshallae - adult F | 41                | 1.8         | 5            | 42         | 0.5   |
| Pseudocalanus spp. C-4 M     | 2                 | 32.0        | 4            | 37         | 0.5   |
| Metridia pacifica C-5 M      | 3                 | 16.0        | 3            | 27         | 0.3   |
| Cnidaria - medusa <5mm       | 1                 | 32.0        | 2            | 18         | 0.2   |
| Neocalanus plumchrus C-1     | 1                 | 32.0        | 2            | 18         | 0.2   |
| Pseudocalanus spp. C-4 F     | 1                 | 32.0        | 2            | 18         | 0.2   |
| Anomura - larva              | 1                 | 32.0        | 2            | 18         | 0.2   |
| Cirripedia - cypris <5mm     | 1                 | 32.0        | 2            | 18         | 0.2   |
| Other Copepoda <2mm          | 1                 | 32.0        | 2            | 18         | 0.2   |
| Other zooplankton <5mm       | 1                 | 32.0        | 2            | 18         | 0.2   |
| Metridia pacifica C-5 F      | 1                 | 16.0        | 1            | 9          | 0.1   |
| Chaetognatha 5-20mm          | 12                | 1.0         | 1            | 7          | 0.1   |
| Oithona spp.                 | 5                 | 1.8         | 1            | 5          | 0.1   |
| Calanus pacificus - adult F  | 4                 | 1.8         | < 1          | 4          | 0.1   |
| Thysanoessa spinifera A&J    | 7                 | 1.0         | < 1          | 4          | 0.1   |
| Thysanoessa inermis A&J      | 4                 | 1.0         | < 1          | 2          | < 0.1 |
| Calanus marshallae C-5       | 2                 | 1.8         | < 1          | 2          | < 0.1 |
| Calanus marshallae C-2       | 2                 | 1.8         | < 1          | 2          | < 0.1 |
| Calanus pacificus C-5        | 2                 | 1.8         | < 1          | 2          | < 0.1 |
| Neocalanus cristatus C-5     | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Calanus marshallae C-3       | 1                 | 1.8         | < 1          | 1          | < 0.1 |
| Calanus marshallae C-4       | 1                 | 1.8         | < 1          | 1          | < 0.1 |
| Calanus marshallae C-1       | 1                 | 1.8         | < 1          | 1          | < 0.1 |
| Thysanoessa raschii A&J      | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Eucalanus bungii - adult F   | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                              |                   |             | 949          | 7873       | 100.  |

STA. G118A      56 01.7 N      157 10.0 W      08 May 85      21:02

DEPTH              SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
112                      0 - 89                      147.4                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 80                | 8.0         | 43           | 386        | 19.3  |
| Pseudocalanus spp. - adult F | 51                | 8.0         | 28           | 246        | 12.3  |
| Neocalanus plumchrus C-3     | 46                | 8.0         | 25           | 222        | 11.1  |
| Acartia spp.                 | 44                | 8.0         | 24           | 212        | 10.6  |
| Pseudocalanus spp. C-5 F     | 36                | 8.0         | 20           | 174        | 8.7   |
| Pseudocalanus spp. C-5 M     | 36                | 8.0         | 20           | 174        | 8.7   |
| Thysanoessa inermis A&J      | 163               | 1.0         | 11           | 98         | 4.9   |
| Neocalanus plumchrus C-2     | 20                | 8.0         | 11           | 97         | 4.8   |
| Cirripedia - nauplius <5mm   | 20                | 8.0         | 11           | 97         | 4.8   |
| Neocalanus plumchrus C-1     | 11                | 8.0         | 6            | 53         | 2.6   |
| Pseudocalanus spp. - adult M | 8                 | 8.0         | 4            | 39         | 1.9   |
| Oithona spp.                 | 26                | 1.6         | 3            | 25         | 1.3   |
| Pseudocalanus spp. C-4 F     | 5                 | 8.0         | 3            | 24         | 1.2   |
| Neocalanus plumchrus C-5     | 5                 | 8.0         | 3            | 24         | 1.2   |
| Calanus marshallae C-1       | 5                 | 8.0         | 3            | 24         | 1.2   |
| Pseudocalanus spp. C-4 M     | 4                 | 8.0         | 2            | 19         | 1.0   |
| Thysanoessa spinifera A&J    | 24                | 1.0         | 2            | 14         | 0.7   |
| Calanus marshallae C-2       | 3                 | 8.0         | 2            | 14         | 0.7   |
| Other Copepoda <2mm          | 3                 | 8.0         | 2            | 14         | 0.7   |
| Cirripedia - cypris <5mm     | 2                 | 8.0         | 1            | 10         | 0.5   |
| Chaetognatha 5-20mm          | 15                | 1.0         | 1            | 9          | 0.5   |
| Calanus marshallae - adult F | 5                 | 1.6         | 1            | 5          | 0.2   |
| Neocalanus cristatus C-4     | 8                 | 1.0         | 1            | 5          | 0.2   |
| Cnidaria - medusa <5mm       | 1                 | 8.0         | 1            | 5          | 0.2   |
| Calanus marshallae C-3       | 1                 | 8.0         | 1            | 5          | 0.2   |
| Calanus marshallae C-5       | 3                 | 1.6         | < 1          | 3          | 0.1   |
| Calanus pacificus - adult M  | 2                 | 1.6         | < 1          | 2          | 0.1   |
| Metridia pacifica C-5 M      | 1                 | 1.6         | < 1          | 1          | < 0.1 |
| Metridia pacifica C-4        | 1                 | 1.6         | < 1          | 1          | < 0.1 |
| Cnidaria - medusa >5mm       | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Euphausia pacifica A&J       | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Hyperiidia >5mm              | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Gymnosomata >5mm             | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                              |                   |             | 225          | 2006       | 100.  |

STA. G119A      56 05.1 N      157 17.0 W      08 May 85      21:50

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
146                      0 - 90                      156.2                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 77                | 16.0        | 79           | 710        | 29.7  |
| Pseudocalanus spp. - adult F | 50                | 16.0        | 51           | 461        | 19.3  |
| Pseudocalanus spp. C-5 F     | 34                | 16.0        | 35           | 313        | 13.1  |
| Neocalanus plumchrus C-3     | 33                | 16.0        | 34           | 304        | 12.7  |
| Pseudocalanus spp. C-5 M     | 28                | 16.0        | 29           | 258        | 10.8  |
| Acartia spp.                 | 40                | 5.3         | 14           | 122        | 5.1   |
| Neocalanus plumchrus C-5     | 6                 | 16.0        | 6            | 55         | 2.3   |
| Neocalanus plumchrus C-2     | 4                 | 16.0        | 4            | 37         | 1.5   |
| Oithona spp.                 | 7                 | 5.3         | 2            | 21         | 0.9   |
| Natantia - larva             | 2                 | 16.0        | 2            | 18         | 0.8   |
| Brachyura - larva            | 2                 | 16.0        | 2            | 18         | 0.8   |
| Calanus marshallae - adult F | 5                 | 5.3         | 2            | 15         | 0.6   |
| Calanus pacificus - adult F  | 5                 | 5.3         | 2            | 15         | 0.6   |
| Calanus marshallae C-1       | 1                 | 16.0        | 1            | 9          | 0.4   |
| Pseudocalanus spp. C-4 M     | 1                 | 16.0        | 1            | 9          | 0.4   |
| Other Copepoda <2mm          | 1                 | 16.0        | 1            | 9          | 0.4   |
| Calanus marshallae C-2       | 1                 | 16.0        | 1            | 9          | 0.4   |
| Neocalanus cristatus C-4     | 5                 | 1.0         | < 1          | 3          | 0.1   |
| Chaetognatha 5-20mm          | 4                 | 1.0         | < 1          | 2          | 0.1   |
| Eucalanus bungii C-5 M       | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Nematoda >5mm                | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                              |                   |             | 266          | 2393       | 100.  |

STA. G120A      56 08.2 N      157 24.0 W      08 May 85      22:38

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
164                      0 - 89                      153.6                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. C-5 M     | 97                | 16.0        | 101          | 899        | 21.3  |
| Neocalanus plumchrus C-4     | 87                | 16.0        | 91           | 807        | 19.1  |
| Pseudocalanus spp. C-5 F     | 70                | 16.0        | 73           | 649        | 15.3  |
| Neocalanus plumchrus C-3     | 47                | 16.0        | 49           | 436        | 10.3  |
| Pseudocalanus spp. - adult F | 34                | 16.0        | 35           | 315        | 7.5   |
| Acartia spp.                 | 29                | 16.0        | 30           | 269        | 6.4   |
| Neocalanus plumchrus C-2     | 21                | 16.0        | 22           | 195        | 4.6   |
| Pseudocalanus spp. C-4 F     | 14                | 16.0        | 15           | 130        | 3.1   |
| Neocalanus plumchrus C-1     | 10                | 16.0        | 10           | 93         | 2.2   |
| Calanus marshallae C-3       | 10                | 16.0        | 10           | 93         | 2.2   |
| Pseudocalanus spp. - adult M | 8                 | 16.0        | 8            | 74         | 1.8   |
| Calanus marshallae C-2       | 7                 | 16.0        | 7            | 65         | 1.5   |
| Pseudocalanus spp. C-4 M     | 6                 | 16.0        | 6            | 56         | 1.3   |
| Other Copepoda <2mm          | 5                 | 16.0        | 5            | 46         | 1.1   |
| Neocalanus plumchrus C-5     | 3                 | 16.0        | 3            | 28         | 0.7   |
| Thecosomata <5mm             | 1                 | 16.0        | 1            | 9          | 0.2   |
| Natantia - larva             | 1                 | 16.0        | 1            | 9          | 0.2   |
| ?Pseudocalanus spp. C-3      | 1                 | 16.0        | 1            | 9          | 0.2   |
| Cirripedia - cypris <5mm     | 1                 | 16.0        | 1            | 9          | 0.2   |
| Anomura - larva              | 1                 | 16.0        | 1            | 9          | 0.2   |
| Chaetognatha 5-20mm          | 15                | 1.0         | 1            | 9          | 0.2   |
| Thysanoessa inermis A&J      | 8                 | 1.0         | 1            | 5          | 0.1   |
| Calanus marshallae - adult F | 3                 | 1.8         | < 1          | 3          | 0.1   |
| Calanus marshallae C-5       | 3                 | 1.8         | < 1          | 3          | 0.1   |
| Calanus pacificus - adult F  | 3                 | 1.8         | < 1          | 3          | 0.1   |
| Neocalanus cristatus C-4     | 3                 | 1.0         | < 1          | 2          | < 0.1 |
| Oithona spp.                 | 1                 | 1.8         | < 1          | 1          | < 0.1 |
| Calanus pacificus C-5        | 1                 | 1.8         | < 1          | 1          | < 0.1 |
| Calanus marshallae C-4       | 1                 | 1.8         | < 1          | 1          | < 0.1 |
| Gymnosomata >5mm             | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                              |                   |             | 475          | 4229       | 100.  |

STA. G121A      56 11.2 N      157 30.0 W      08 May 85      23:22

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
155                      0 - 89                      141.9                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 71                | 32.0        | 160          | 1425       | 26.4  |
| Pseudocalanus spp. C-5 M     | 50                | 32.0        | 113          | 1003       | 18.6  |
| Pseudocalanus spp. - adult F | 34                | 32.0        | 77           | 682        | 12.7  |
| Pseudocalanus spp. C-5 F     | 31                | 32.0        | 70           | 622        | 11.5  |
| Neocalanus plumchrus C-3     | 19                | 32.0        | 43           | 381        | 7.1   |
| Pseudocalanus spp. C-4 F     | 13                | 32.0        | 29           | 261        | 4.8   |
| Pseudocalanus spp. - adult M | 8                 | 32.0        | 18           | 161        | 3.0   |
| Pseudocalanus spp. C-4 M     | 7                 | 32.0        | 16           | 140        | 2.6   |
| Acartia spp.                 | 62                | 3.6         | 16           | 140        | 2.6   |
| Neocalanus plumchrus C-2     | 5                 | 32.0        | 11           | 100        | 1.9   |
| Calanus marshallae C-1       | 4                 | 32.0        | 9            | 80         | 1.5   |
| Neocalanus plumchrus C-1     | 3                 | 32.0        | 7            | 60         | 1.1   |
| Chaetognatha <5mm            | 3                 | 32.0        | 7            | 60         | 1.1   |
| Calanus marshallae C-2       | 3                 | 32.0        | 7            | 60         | 1.1   |
| Oithona spp.                 | 17                | 3.6         | 4            | 38         | 0.7   |
| Anomura - larva              | 1                 | 32.0        | 2            | 20         | 0.4   |
| Thecosomata <5mm             | 1                 | 32.0        | 2            | 20         | 0.4   |
| ?Pseudocalanus spp. C-3      | 1                 | 32.0        | 2            | 20         | 0.4   |
| Brachyura - larva            | 1                 | 32.0        | 2            | 20         | 0.4   |
| Neocalanus plumchrus C-5     | 1                 | 32.0        | 2            | 20         | 0.4   |
| Natantia - larva             | 1                 | 32.0        | 2            | 20         | 0.4   |
| Neocalanus cristatus C-4     | 30                | 1.0         | 2            | 19         | 0.3   |
| Calanus marshallae - adult F | 6                 | 3.6         | 2            | 14         | 0.3   |
| Chaetognatha 5-20mm          | 13                | 1.0         | 1            | 8          | 0.2   |
| Calanus pacificus C-5        | 3                 | 3.6         | 1            | 7          | 0.1   |
| Calanus marshallae - adult M | 1                 | 3.6         | < 1          | 2          | < 0.1 |
| Cnidaria - medusa >5mm       | 3                 | 1.0         | < 1          | 2          | < 0.1 |
|                              |                   |             | 605          | 5386       | 100.  |

STA. G126A      55 56.9 N      156 23.0 W      09 May 85      10:57

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
224                      0 - 193                      295.3                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Neocalanus plumchrus C-4     | 162               | 64.0        | 351          | 6776       | 20.0 |
| Metridia pacifica - adult F  | 95                | 64.0        | 206          | 3973       | 11.7 |
| Neocalanus plumchrus C-5     | 93                | 64.0        | 202          | 3890       | 11.5 |
| Pseudocalanus spp. - adult F | 56                | 64.0        | 121          | 2342       | 6.9  |
| Oithona spp.                 | 43                | 64.0        | 93           | 1798       | 5.3  |
| Metridia pacifica - adult M  | 39                | 64.0        | 85           | 1631       | 4.8  |
| Other Copepoda <2mm          | 37                | 64.0        | 80           | 1548       | 4.6  |
| Metridia pacifica C-4        | 35                | 64.0        | 76           | 1464       | 4.3  |
| Metriididae C-3              | 31                | 64.0        | 67           | 1297       | 3.8  |
| Neocalanus plumchrus C-3     | 29                | 64.0        | 63           | 1213       | 3.6  |
| Metridia pacifica C-5 F      | 25                | 64.0        | 54           | 1046       | 3.1  |
| Pseudocalanus spp. C-5 F     | 25                | 64.0        | 54           | 1046       | 3.1  |
| Pseudocalanus spp. C-5 M     | 23                | 64.0        | 50           | 962        | 2.8  |
| Pseudocalanus spp. - adult M | 22                | 64.0        | 48           | 920        | 2.7  |
| Metridia pacifica C-5 M      | 16                | 64.0        | 35           | 669        | 2.0  |
| Ostracoda <5mm               | 8                 | 64.0        | 17           | 335        | 1.0  |
| Acartia spp.                 | 7                 | 64.0        | 15           | 293        | 0.9  |
| Chaetognatha >20mm           | 183               | 2.0         | 12           | 239        | 0.7  |
| Pseudocalanus spp. C-4 M     | 5                 | 64.0        | 11           | 209        | 0.6  |
| Calanus marshallae - adult F | 4                 | 64.0        | 9            | 167        | 0.5  |
| Siphonophora >5mm            | 4                 | 64.0        | 9            | 167        | 0.5  |
| Neocalanus cristatus C-4     | 103               | 2.0         | 7            | 135        | 0.4  |
| Gammaridea <5mm              | 3                 | 64.0        | 7            | 125        | 0.4  |
| Larvacea                     | 3                 | 64.0        | 7            | 125        | 0.4  |
| Chaetognatha <5mm            | 3                 | 64.0        | 7            | 125        | 0.4  |
| Other Copepoda 2-5mm         | 3                 | 64.0        | 7            | 125        | 0.4  |
| Neocalanus cristatus C-5     | 88                | 2.0         | 6            | 115        | 0.3  |
| Anomura - larva              | 2                 | 64.0        | 4            | 84         | 0.2  |
| Thecosomata >5mm             | 2                 | 64.0        | 4            | 84         | 0.2  |
| Pseudocalanus spp. C-4 F     | 2                 | 64.0        | 4            | 84         | 0.2  |
| Thysanoessa inermis A&J      | 40                | 2.0         | 3            | 52         | 0.2  |
| ?Pseudocalanus spp. C-3      | 1                 | 64.0        | 2            | 42         | 0.1  |
| Brachyura - larva            | 1                 | 64.0        | 2            | 42         | 0.1  |
| Invertebrata <5mm            | 1                 | 64.0        | 2            | 42         | 0.1  |
| Metriididae C-2              | 1                 | 64.0        | 2            | 42         | 0.1  |
| Neocalanus plumchrus C-2     | 1                 | 64.0        | 2            | 42         | 0.1  |
| Neocalanus plumchrus C-1     | 1                 | 64.0        | 2            | 42         | 0.1  |
| Cirripedia - nauplius <5mm   | 1                 | 64.0        | 2            | 42         | 0.1  |
| Invertebrata - egg <5mm      | 1                 | 64.0        | 2            | 42         | 0.1  |
| Foraminifera <5mm            | 1                 | 64.0        | 2            | 42         | 0.1  |
| Calanus marshallae C-5       | 1                 | 64.0        | 2            | 42         | 0.1  |
| Calanus marshallae C-4       | 1                 | 64.0        | 2            | 42         | 0.1  |
| Calanus marshallae C-1       | 1                 | 64.0        | 2            | 42         | 0.1  |
| Gastropoda - veliger <5mm    | 1                 | 64.0        | 2            | 42         | 0.1  |
| Gymnosomata >5mm             | 1                 | 64.0        | 2            | 42         | 0.1  |
| Eucalanus bungii - adult F   | 31                | 2.0         | 2            | 41         | 0.1  |

|                                |    |     |       |       |       |
|--------------------------------|----|-----|-------|-------|-------|
| Cnidaria - medusa >5mm         | 26 | 2.0 | 2     | 34    | 0.1   |
| Thysanoessa spinifera A&J      | 26 | 2.0 | 2     | 34    | 0.1   |
| Gammaridea >5mm                | 19 | 2.0 | 1     | 25    | 0.1   |
| Neocalanus plumchrus - adult M | 16 | 2.0 | 1     | 21    | 0.1   |
| Siphonophora >5mm              | 9  | 2.0 | 1     | 12    | < 0.1 |
| Other Copepoda >5mm            | 6  | 2.0 | < 1   | 8     | < 0.1 |
| Eucalanus bungii C-5 F         | 6  | 2.0 | < 1   | 8     | < 0.1 |
| Eucalanus bungii - adult M     | 5  | 2.0 | < 1   | 7     | < 0.1 |
| Chaetognatha 5-20mm            | 5  | 2.0 | < 1   | 7     | < 0.1 |
| Mysidacea >5mm                 | 5  | 2.0 | < 1   | 7     | < 0.1 |
| Polychaeta >5mm                | 4  | 2.0 | < 1   | 5     | < 0.1 |
| Teleostei - larva >5mm         | 4  | 2.0 | < 1   | 5     | < 0.1 |
| Hyperiididea >5mm              | 3  | 2.0 | < 1   | 4     | < 0.1 |
| Neocalanus plumchrus - adult F | 2  | 2.0 | < 1   | 3     | < 0.1 |
| Thysanoessa inspinata A&J      | 1  | 2.0 | < 1   | 1     | < 0.1 |
| Natantia A&J >5mm              | 1  | 2.0 | < 1   | 1     | < 0.1 |
| Eucalanus bungii C-5 M         | 1  | 2.0 | < 1   | 1     | < 0.1 |
|                                |    |     | ----- | ----- | ----- |
|                                |    |     | 1754  | 33846 | 100.  |



STA. G128A      55 14.7 N      154 56.0 W      09 May 85      22:28

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH

2195                      0 - 175                  303.0                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Larvacea                     | 181               | 128.0       | 765          | 13383      | 17.2 |
| Other Copepoda - nauplius    | 146               | 128.0       | 617          | 10795      | 13.8 |
| Eucalanus bungii C-1         | 101               | 128.0       | 427          | 7468       | 9.6  |
| Oithona spp.                 | 71                | 128.0       | 300          | 5250       | 6.7  |
| Eucalanus bungii C-2         | 69                | 128.0       | 292          | 5102       | 6.5  |
| Invertebrata - egg <5mm      | 47                | 128.0       | 199          | 3475       | 4.5  |
| Neocalanus plumchrus C-3     | 36                | 128.0       | 152          | 2662       | 3.4  |
| Other Copepoda 2-5mm         | 33                | 128.0       | 139          | 2440       | 3.1  |
| Chaetognatha 5-20mm          | 225               | 16.0        | 119          | 2080       | 2.7  |
| Eucalanus bungii C-3         | 28                | 128.0       | 118          | 2070       | 2.7  |
| Neocalanus plumchrus C-2     | 27                | 128.0       | 114          | 1996       | 2.6  |
| Ostracoda <5mm               | 26                | 128.0       | 110          | 1922       | 2.5  |
| Euphausiacea - nauplius      | 26                | 128.0       | 110          | 1922       | 2.5  |
| Metriididae C-3              | 24                | 128.0       | 101          | 1775       | 2.3  |
| Echinodermata - larva <5mm   | 20                | 128.0       | 85           | 1479       | 1.9  |
| Neocalanus plumchrus C-4     | 17                | 128.0       | 72           | 1257       | 1.6  |
| Neocalanus plumchrus C-5     | 16                | 128.0       | 68           | 1183       | 1.5  |
| Neocalanus plumchrus C-1     | 14                | 128.0       | 59           | 1035       | 1.3  |
| Euphausiacea - calyptopis 1  | 12                | 128.0       | 51           | 887        | 1.1  |
| Siphonophora <5mm            | 11                | 128.0       | 46           | 813        | 1.0  |
| Bryozoa - cyphonautes <5mm   | 11                | 128.0       | 46           | 813        | 1.0  |
| Euphausiacea - calyptopis 2  | 10                | 128.0       | 42           | 739        | 0.9  |
| Other zooplankton <5mm       | 9                 | 128.0       | 38           | 665        | 0.9  |
| Metridia pacifica C-4        | 5                 | 128.0       | 21           | 370        | 0.5  |
| Chaetognatha <5mm            | 5                 | 128.0       | 21           | 370        | 0.5  |
| Other Copepoda <2mm          | 5                 | 128.0       | 21           | 370        | 0.5  |
| Neocalanus cristatus C-5     | 38                | 16.0        | 20           | 351        | 0.5  |
| Neocalanus cristatus C-4     | 33                | 16.0        | 17           | 305        | 0.4  |
| Hyperiididae <5mm            | 4                 | 128.0       | 17           | 296        | 0.4  |
| Neocalanus cristatus C-3     | 4                 | 128.0       | 17           | 296        | 0.4  |
| Pseudocalanus spp. C-5 M     | 4                 | 128.0       | 17           | 296        | 0.4  |
| Euphausiacea - calyptopis 3  | 4                 | 128.0       | 17           | 296        | 0.4  |
| Eucalanus bungii C-4 M       | 4                 | 128.0       | 17           | 296        | 0.4  |
| Eucalanus bungii - adult F   | 31                | 16.0        | 16           | 287        | 0.4  |
| Hyperiididae <5mm            | 3                 | 128.0       | 13           | 222        | 0.3  |
| Polychaeta <5mm              | 3                 | 128.0       | 13           | 222        | 0.3  |
| Euphausiacea - furcilia      | 3                 | 128.0       | 13           | 222        | 0.3  |
| Eucalanus bungii C-4 F       | 2                 | 128.0       | 8            | 148        | 0.2  |
| Metridia pacifica - adult F  | 2                 | 128.0       | 8            | 148        | 0.2  |
| Pseudocalanus spp. - adult F | 2                 | 128.0       | 8            | 148        | 0.2  |
| Metridia pacifica C-5 M      | 2                 | 128.0       | 8            | 148        | 0.2  |
| Metridia pacifica C-5 F      | 2                 | 128.0       | 8            | 148        | 0.2  |
| Foraminifera <5mm            | 2                 | 128.0       | 8            | 148        | 0.2  |
| Pseudocalanus spp. C-4 F     | 2                 | 128.0       | 8            | 148        | 0.2  |
| Neocalanus cristatus C-2     | 2                 | 128.0       | 8            | 148        | 0.2  |
| Calanus marshallae C-2       | 2                 | 128.0       | 8            | 148        | 0.2  |

|                                |    |       |       |       |       |
|--------------------------------|----|-------|-------|-------|-------|
| Cnidaria - medusa >5mm         | 16 | 16.0  | 8     | 148   | 0.2   |
| Gymnosomata <5mm               | 2  | 128.0 | 8     | 148   | 0.2   |
| Polychaeta >5mm                | 12 | 16.0  | 6     | 111   | 0.1   |
| Siphonophora >5mm              | 12 | 16.0  | 6     | 111   | 0.1   |
| Other Copepoda >5mm            | 10 | 16.0  | 5     | 92    | 0.1   |
| Calanus marshallae C-1         | 1  | 128.0 | 4     | 74    | 0.1   |
| Eucalanus bungii - adult M     | 8  | 16.0  | 4     | 74    | 0.1   |
| Neocalanus cristatus C-1       | 1  | 128.0 | 4     | 74    | 0.1   |
| Neocalanus plumchrus - adult F | 1  | 128.0 | 4     | 74    | 0.1   |
| Acartia spp.                   | 1  | 128.0 | 4     | 74    | 0.1   |
| Teleostei - egg <5mm           | 1  | 128.0 | 4     | 74    | 0.1   |
| Eucalanus bungii C-5 M         | 5  | 16.0  | 3     | 46    | 0.1   |
| Eucalanus bungii C-5 F         | 4  | 16.0  | 2     | 37    | < 0.1 |
| Euphausia pacifica A&J         | 4  | 16.0  | 2     | 37    | < 0.1 |
| Hyperiididea >5mm              | 3  | 16.0  | 2     | 28    | < 0.1 |
| Other zooplankton >5mm         | 2  | 16.0  | 1     | 18    | < 0.1 |
| Teleostei - larva >5mm         | 1  | 16.0  | 1     | 9     | < 0.1 |
| Decapoda (Mollusca) >5mm       | 1  | 16.0  | 1     | 9     | < 0.1 |
|                                |    |       | ----- | ----- | ----- |
|                                |    |       | 4456  | 77978 | 100.  |

STA. G129A      55 27.0 N      155 08.0 W      10 May-85      1:30

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
841                      0 - 166                  279.6                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %   |
|------------------------------|-------------------|-------------|--------------|------------|-----|
| Invertebrata - egg <5mm      | 55                | 128.0       | 252          | 4180       | 9.2 |
| Larvacea                     | 40                | 128.0       | 183          | 3040       | 6.7 |
| Oithona spp.                 | 36                | 128.0       | 165          | 2736       | 6.0 |
| Eucalanus bungii C-1         | 35                | 128.0       | 160          | 2660       | 5.8 |
| Euphausiacea - calyptopis 1  | 34                | 128.0       | 156          | 2584       | 5.7 |
| Metridia pacifica C-4        | 31                | 128.0       | 142          | 2356       | 5.2 |
| Other Copepoda - nauplius    | 27                | 128.0       | 124          | 2052       | 4.5 |
| Euphausiacea - nauplius      | 25                | 128.0       | 114          | 1900       | 4.2 |
| Cirripedia - nauplius <5mm   | 25                | 128.0       | 114          | 1900       | 4.2 |
| Chaetognatha 5-20mm          | 385               | 8.0         | 110          | 1829       | 4.0 |
| Other Copepoda <2mm          | 23                | 128.0       | 105          | 1748       | 3.8 |
| Eucalanus bungii C-2         | 23                | 128.0       | 105          | 1748       | 3.8 |
| Metriididae C-3              | 19                | 128.0       | 87           | 1444       | 3.2 |
| Metridia pacifica - adult F  | 19                | 128.0       | 87           | 1444       | 3.2 |
| Neocalanus plumchrus C-3     | 14                | 128.0       | 64           | 1064       | 2.3 |
| Echinodermata - larva <5mm   | 13                | 128.0       | 60           | 988        | 2.2 |
| Foraminifera <5mm            | 13                | 128.0       | 60           | 988        | 2.2 |
| Metridia pacifica C-5 F      | 12                | 128.0       | 55           | 912        | 2.0 |
| Eucalanus bungii C-3         | 11                | 128.0       | 50           | 836        | 1.8 |
| Ostracoda <5mm               | 11                | 128.0       | 50           | 836        | 1.8 |
| Pseudocalanus spp. - adult F | 10                | 128.0       | 46           | 760        | 1.7 |
| Neocalanus plumchrus C-2     | 9                 | 128.0       | 41           | 684        | 1.5 |
| Neocalanus plumchrus C-4     | 9                 | 128.0       | 41           | 684        | 1.5 |
| Thecosomata <5mm             | 7                 | 128.0       | 32           | 532        | 1.2 |
| Euphausiacea - calyptopis 2  | 6                 | 128.0       | 27           | 456        | 1.0 |
| Metridia pacifica C-5 M      | 6                 | 128.0       | 27           | 456        | 1.0 |
| Pseudocalanus spp. C-5 M     | 5                 | 128.0       | 23           | 380        | 0.8 |
| Cirripedia - cypris <5mm     | 5                 | 128.0       | 23           | 380        | 0.8 |
| Bryozoa - cyphonautes <5mm   | 5                 | 128.0       | 23           | 380        | 0.8 |
| Neocalanus plumchrus C-5     | 4                 | 128.0       | 18           | 304        | 0.7 |
| Siphonophora <5mm            | 4                 | 128.0       | 18           | 304        | 0.7 |
| Pseudocalanus spp. - adult M | 4                 | 128.0       | 18           | 304        | 0.7 |
| Neocalanus cristatus C-3     | 3                 | 128.0       | 14           | 228        | 0.5 |
| Neocalanus cristatus C-5     | 41                | 8.0         | 12           | 195        | 0.4 |
| Neocalanus cristatus C-4     | 38                | 8.0         | 11           | 180        | 0.4 |
| Euphausiacea - calyptopis 3  | 2                 | 128.0       | 9            | 152        | 0.3 |
| Neocalanus plumchrus C-1     | 2                 | 128.0       | 9            | 152        | 0.3 |
| Eucalanus bungii C-4 F       | 2                 | 128.0       | 9            | 152        | 0.3 |
| Hyperiidea <5mm              | 2                 | 128.0       | 9            | 152        | 0.3 |
| Neocalanus cristatus C-2     | 2                 | 128.0       | 9            | 152        | 0.3 |
| Pseudocalanus spp. C-4 F     | 2                 | 128.0       | 9            | 152        | 0.3 |
| Calanus marshallae C-3       | 1                 | 128.0       | 5            | 76         | 0.2 |
| Neocalanus cristatus C-1     | 1                 | 128.0       | 5            | 76         | 0.2 |
| Pseudocalanus spp. C-4 M     | 1                 | 128.0       | 5            | 76         | 0.2 |
| Calanus marshallae C-1       | 1                 | 128.0       | 5            | 76         | 0.2 |
| Gymnosomata <5mm             | 1                 | 128.0       | 5            | 76         | 0.2 |

|                              |    |       |       |       |       |
|------------------------------|----|-------|-------|-------|-------|
| Polychaeta <5mm              | 1  | 128.0 | 5     | 76    | 0.2   |
| Calanus marshallae - adult M | 1  | 128.0 | 5     | 76    | 0.2   |
| Siphonophora >5mm            | 32 | 4.0   | 5     | 76    | 0.2   |
| Invertebrata <5mm            | 1  | 128.0 | 5     | 76    | 0.2   |
| Euphausiacea - furcilia      | 1  | 128.0 | 5     | 76    | 0.2   |
| Pseudocalanus spp. C-5 F     | 1  | 128.0 | 5     | 76    | 0.2   |
| Cnidaria - medusa >5mm       | 25 | 4.0   | 4     | 59    | 0.1   |
| Eucalanus bungii - adult F   | 23 | 4.0   | 3     | 55    | 0.1   |
| Polychaeta >5mm              | 20 | 4.0   | 3     | 47    | 0.1   |
| Euphausiacea A&J damaged     | 8  | 4.0   | 1     | 19    | < 0.1 |
| Thysanoessa inspinata A&J    | 7  | 4.0   | 1     | 17    | < 0.1 |
| Hyperiidia >5mm              | 6  | 4.0   | 1     | 14    | < 0.1 |
| Teleostei - larva >5mm       | 6  | 4.0   | 1     | 14    | < 0.1 |
| Gymnosomata >5mm             | 5  | 4.0   | 1     | 12    | < 0.1 |
| Eucalanus bungii C-5 F       | 4  | 4.0   | 1     | 9     | < 0.1 |
| Eucalanus bungii - adult M   | 4  | 4.0   | 1     | 9     | < 0.1 |
| Euphausia pacifica A&J       | 2  | 4.0   | < 1   | 5     | < 0.1 |
| Thysanoessa longipes A&J     | 2  | 4.0   | < 1   | 5     | < 0.1 |
| Thysanoessa inermis A&J      | 1  | 4.0   | < 1   | 2     | < 0.1 |
| Eucalanus bungii C-5 M       | 1  | 4.0   | < 1   | 2     | < 0.1 |
| Other Copepoda >5mm          | 1  | 4.0   | < 1   | 2     | < 0.1 |
| Gammaridea >5mm              | 1  | 4.0   | < 1   | 2     | < 0.1 |
| Other zooplankton >5mm       | 1  | 4.0   | < 1   | 2     | < 0.1 |
|                              |    |       | ----- | ----- | ----- |
|                              |    |       | 2741  | 45496 | 100.  |

STA. G130A      55 36.9 N      155 16.0 W      10 May 85      4:42

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
695                      0 - 184                      314.1                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Euphausiacea - calyptopis 1  | 62                | 256.0       | 505          | 9297       | 14.2 |
| Euphausiacea - calyptopis 2  | 52                | 256.0       | 424          | 7798       | 11.9 |
| Cirripedia - nauplius <5mm   | 51                | 256.0       | 416          | 7648       | 11.6 |
| Euphausiacea - nauplius      | 24                | 256.0       | 196          | 3599       | 5.5  |
| Other Copepoda <2mm          | 20                | 256.0       | 163          | 2999       | 4.6  |
| Chaetognatha 5-20mm          | 135               | 32.0        | 138          | 2530       | 3.9  |
| Euphausiacea - calyptopis 3  | 16                | 256.0       | 130          | 2399       | 3.7  |
| Metridia pacifica C-4        | 44                | 85.3        | 119          | 2198       | 3.3  |
| Ostracoda <5mm               | 42                | 85.3        | 114          | 2099       | 3.2  |
| Invertebrata - egg <5mm      | 39                | 85.3        | 106          | 1949       | 3.0  |
| Neocalanus plumchrus C-5     | 35                | 85.3        | 95           | 1749       | 2.7  |
| Larvacea                     | 34                | 85.3        | 92           | 1699       | 2.6  |
| Metridia pacifica C-5 M      | 34                | 85.3        | 92           | 1699       | 2.6  |
| Metridia pacifica - adult F  | 29                | 85.3        | 79           | 1449       | 2.2  |
| Neocalanus cristatus C-5     | 73                | 32.0        | 74           | 1368       | 2.1  |
| Euphausiacea - furcilia      | 22                | 85.3        | 60           | 1099       | 1.7  |
| Metridia pacifica C-5 F      | 22                | 85.3        | 60           | 1099       | 1.7  |
| Oithona spp.                 | 21                | 85.3        | 57           | 1049       | 1.6  |
| Eucalanus bungii C-1         | 19                | 85.3        | 52           | 949        | 1.4  |
| Metriididae C-3              | 19                | 85.3        | 52           | 949        | 1.4  |
| Siphonophora <5mm            | 16                | 85.3        | 43           | 799        | 1.2  |
| Eucalanus bungii C-3         | 12                | 85.3        | 33           | 600        | 0.9  |
| Neocalanus cristatus C-4     | 31                | 32.0        | 32           | 581        | 0.9  |
| Pseudocalanus spp. - adult F | 10                | 85.3        | 27           | 500        | 0.8  |
| Neocalanus cristatus C-3     | 10                | 85.3        | 27           | 500        | 0.8  |
| Other Copepoda 2-5mm         | 3                 | 256.0       | 24           | 450        | 0.7  |
| Pseudocalanus spp. C-5 M     | 9                 | 85.3        | 24           | 450        | 0.7  |
| Eucalanus bungii C-2         | 9                 | 85.3        | 24           | 450        | 0.7  |
| Neocalanus cristatus C-2     | 8                 | 85.3        | 22           | 400        | 0.6  |
| Thecosomata <5mm             | 7                 | 85.3        | 19           | 350        | 0.5  |
| Echinodermata - larva <5mm   | 7                 | 85.3        | 19           | 350        | 0.5  |
| Cirripedia - cypris <5mm     | 7                 | 85.3        | 19           | 350        | 0.5  |
| Neocalanus plumchrus C-3     | 6                 | 85.3        | 16           | 300        | 0.5  |
| Chaetognatha <5mm            | 6                 | 85.3        | 16           | 300        | 0.5  |
| Foraminifera <5mm            | 6                 | 85.3        | 16           | 300        | 0.5  |
| Pseudocalanus spp. - adult M | 5                 | 85.3        | 14           | 250        | 0.4  |
| Calanus marshallae C-5       | 4                 | 85.3        | 11           | 200        | 0.3  |
| Neocalanus plumchrus C-4     | 4                 | 85.3        | 11           | 200        | 0.3  |
| Metridia pacifica - adult M  | 4                 | 85.3        | 11           | 200        | 0.3  |
| Eucalanus bungii C-4 F       | 3                 | 85.3        | 8            | 150        | 0.2  |
| Pseudocalanus spp. C-5 F     | 3                 | 85.3        | 8            | 150        | 0.2  |
| Gastropoda - veliger <5mm    | 3                 | 85.3        | 8            | 150        | 0.2  |
| Acartia spp.                 | 3                 | 85.3        | 8            | 150        | 0.2  |
| Brachyura - larva            | 3                 | 85.3        | 8            | 150        | 0.2  |
| Other Copepoda - nauplius    | 3                 | 85.3        | 8            | 150        | 0.2  |
| Eucalanus bungii - adult F   | 21                | 10.7        | 7            | 132        | 0.2  |

|                              |    |      |       |       |       |
|------------------------------|----|------|-------|-------|-------|
| Siphonophora >5mm            | 20 | 10.7 | 7     | 125   | 0.2   |
| Neocalanus cristatus C-1     | 2  | 85.3 | 5     | 100   | 0.2   |
| Calanus marshallae C-3       | 2  | 85.3 | 5     | 100   | 0.2   |
| Calanus marshallae - adult M | 2  | 85.3 | 5     | 100   | 0.2   |
| Calanus marshallae - adult F | 2  | 85.3 | 5     | 100   | 0.2   |
| Calanus marshallae C-4       | 2  | 85.3 | 5     | 100   | 0.2   |
| Bryozoa - cyphonautes <5mm   | 2  | 85.3 | 5     | 100   | 0.2   |
| Teleostei - egg <5mm         | 2  | 85.3 | 5     | 100   | 0.2   |
| Polychaeta <5mm              | 2  | 85.3 | 5     | 100   | 0.2   |
| Polychaeta >5mm              | 12 | 10.7 | 4     | 75    | 0.1   |
| Cnidaria - medusa >5mm       | 9  | 10.7 | 3     | 56    | 0.1   |
| Thysanoessa inermis A&J      | 9  | 10.7 | 3     | 56    | 0.1   |
| Anomura - larva              | 1  | 85.3 | 3     | 50    | 0.1   |
| Cnidaria - medusa <5mm       | 1  | 85.3 | 3     | 50    | 0.1   |
| Eucalanus bungii C-4 M       | 1  | 85.3 | 3     | 50    | 0.1   |
| Teleostei - larva <5mm       | 1  | 85.3 | 3     | 50    | 0.1   |
| Teleostei - larva >5mm       | 6  | 10.7 | 2     | 38    | 0.1   |
| Chaetognatha >20mm           | 2  | 32.0 | 2     | 37    | 0.1   |
| Hyperiididea >5mm            | 4  | 10.7 | 1     | 25    | < 0.1 |
| Euphausiacea A&J damaged     | 4  | 10.7 | 1     | 25    | < 0.1 |
| Other Copepoda >5mm          | 3  | 10.7 | 1     | 19    | < 0.1 |
| Eucalanus bungii - adult M   | 2  | 10.7 | 1     | 13    | < 0.1 |
| Thysanoessa inspinata A&J    | 1  | 10.7 | < 1   | 6     | < 0.1 |
| Decapoda (Mollusca) >5mm     | 1  | 10.7 | < 1   | 6     | < 0.1 |
| Thysanoessa spinifera A&J    | 1  | 10.7 | < 1   | 6     | < 0.1 |
| Gammaridea >5mm              | 1  | 10.7 | < 1   | 6     | < 0.1 |
|                              |    |      | ----- | ----- | ----- |
|                              |    |      | 3569  | 65677 | 100.  |

STA. G131A      55 45.4 N      155 23.0 W      10 May 85      6:14

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
70                      0 - 56                  127.0                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F | 53                | 64.0        | 267          | 1496       | 20.0  |
| Neocalanus plumchrus C-5     | 41                | 64.0        | 207          | 1157       | 15.5  |
| Neocalanus plumchrus C-4     | 27                | 64.0        | 136          | 762        | 10.2  |
| Pseudocalanus spp. - adult M | 19                | 64.0        | 96           | 536        | 7.2   |
| Metridia pacifica - adult F  | 18                | 64.0        | 91           | 508        | 6.8   |
| Pseudocalanus spp. C-5 M     | 11                | 64.0        | 55           | 310        | 4.1   |
| Cirripedia - nauplius <5mm   | 10                | 64.0        | 50           | 282        | 3.8   |
| Pseudocalanus spp. C-5 F     | 9                 | 64.0        | 45           | 254        | 3.4   |
| Metridia pacifica C-5 F      | 8                 | 64.0        | 40           | 226        | 3.0   |
| Acartia spp.                 | 7                 | 64.0        | 35           | 198        | 2.6   |
| Metridia pacifica C-4        | 7                 | 64.0        | 35           | 198        | 2.6   |
| Pseudocalanus spp. C-4 F     | 5                 | 64.0        | 25           | 141        | 1.9   |
| Calanus marshallae - adult F | 5                 | 64.0        | 25           | 141        | 1.9   |
| Calanus marshallae C-3       | 5                 | 64.0        | 25           | 141        | 1.9   |
| Neocalanus cristatus C-5     | 73                | 4.0         | 23           | 129        | 1.7   |
| Neocalanus cristatus C-4     | 65                | 4.0         | 20           | 115        | 1.5   |
| Other Copepoda <2mm          | 4                 | 64.0        | 20           | 113        | 1.5   |
| Calanus marshallae C-4       | 3                 | 64.0        | 15           | 85         | 1.1   |
| Euphausiacea - calyptopis 1  | 3                 | 64.0        | 15           | 85         | 1.1   |
| Calanus marshallae C-5       | 2                 | 64.0        | 10           | 56         | 0.8   |
| Larvacea                     | 2                 | 64.0        | 10           | 56         | 0.8   |
| Cirripedia - cypris <5mm     | 2                 | 64.0        | 10           | 56         | 0.8   |
| Pseudocalanus spp. C-4 M     | 2                 | 64.0        | 10           | 56         | 0.8   |
| Brachyura - larva            | 2                 | 64.0        | 10           | 56         | 0.8   |
| Calanus pacificus - adult M  | 2                 | 64.0        | 10           | 56         | 0.8   |
| Neocalanus cristatus C-2     | 1                 | 64.0        | 5            | 28         | 0.4   |
| Cnidaria - medusa <5mm       | 1                 | 64.0        | 5            | 28         | 0.4   |
| Metriididae C-3              | 1                 | 64.0        | 5            | 28         | 0.4   |
| Calanus marshallae - adult M | 1                 | 64.0        | 5            | 28         | 0.4   |
| Oithona spp.                 | 1                 | 64.0        | 5            | 28         | 0.4   |
| Invertebrata - egg <5mm      | 1                 | 64.0        | 5            | 28         | 0.4   |
| Euphausiacea - calyptopis 2  | 1                 | 64.0        | 5            | 28         | 0.4   |
| Metridia pacifica C-5 M      | 1                 | 64.0        | 5            | 28         | 0.4   |
| Chaetognatha 5-20mm          | 13                | 4.0         | 4            | 23         | 0.3   |
| Hyperiididae >5mm            | 7                 | 4.0         | 2            | 12         | 0.2   |
| Cnidaria - medusa >5mm       | 3                 | 4.0         | 1            | 5          | 0.1   |
| Eucalanus bungii - adult F   | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Gymnosomata >5mm             | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Teleostei - larva >5mm       | 1                 | 4.0         | < 1          | 2          | < 0.1 |
| Thysanoessa inermis A&J      | 1                 | 4.0         | < 1          | 2          | < 0.1 |
|                              |                   |             | 1337         | 7488       | 100.  |

STA. G132A      56 00.6 N      155 20.0 W      10 May 85      8:07

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
37                      0 - 31                  89.7                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Neocalanus plumchrus C-4     | 97                | 64.0        | 692          | 2145       | 25.9  |
| Neocalanus plumchrus C-5     | 72                | 64.0        | 514          | 1592       | 19.2  |
| Pseudocalanus spp. - adult F | 21                | 64.0        | 150          | 464        | 5.6   |
| Pseudocalanus spp. - adult M | 18                | 64.0        | 128          | 398        | 4.8   |
| Cirripedia - nauplius <5mm   | 17                | 64.0        | 121          | 376        | 4.5   |
| Pseudocalanus spp. C-5 M     | 16                | 64.0        | 114          | 354        | 4.3   |
| Calanus marshallae - adult F | 26                | 32.0        | 93           | 287        | 3.5   |
| Pseudocalanus spp. C-5 F     | 13                | 64.0        | 93           | 287        | 3.5   |
| Neocalanus plumchrus C-3     | 23                | 32.0        | 82           | 254        | 3.1   |
| Metriididae C-3              | 11                | 64.0        | 78           | 243        | 2.9   |
| Metridia pacifica C-5 M      | 10                | 64.0        | 71           | 221        | 2.7   |
| Metridia pacifica C-4        | 8                 | 64.0        | 57           | 177        | 2.1   |
| Anomura - larva              | 7                 | 64.0        | 50           | 155        | 1.9   |
| Metridia pacifica C-5 F      | 7                 | 64.0        | 50           | 155        | 1.9   |
| Brachyura - larva            | 7                 | 64.0        | 50           | 155        | 1.9   |
| ?Pseudocalanus spp. C-3      | 5                 | 64.0        | 36           | 111        | 1.3   |
| Acartia spp.                 | 162               | 1.9         | 34           | 106        | 1.3   |
| Cirripedia - cypris <5mm     | 4                 | 64.0        | 29           | 88         | 1.1   |
| Other Copepoda <2mm          | 3                 | 64.0        | 21           | 66         | 0.8   |
| Metridia pacifica - adult M  | 3                 | 64.0        | 21           | 66         | 0.8   |
| Metridia pacifica - adult F  | 3                 | 64.0        | 21           | 66         | 0.8   |
| Calanus marshallae C-3       | 6                 | 32.0        | 21           | 66         | 0.8   |
| Calanus marshallae C-2       | 6                 | 32.0        | 21           | 66         | 0.8   |
| Calanus marshallae C-1       | 5                 | 32.0        | 18           | 55         | 0.7   |
| Calanus marshallae C-5       | 4                 | 32.0        | 14           | 44         | 0.5   |
| Polychaeta <5mm              | 2                 | 64.0        | 14           | 44         | 0.5   |
| Pseudocalanus spp. C-4 M     | 2                 | 64.0        | 14           | 44         | 0.5   |
| Calanus marshallae - adult M | 4                 | 32.0        | 14           | 44         | 0.5   |
| Neocalanus cristatus C-4     | 77                | 1.0         | 9            | 27         | 0.3   |
| Oithona spp.                 | 34                | 1.9         | 7            | 22         | 0.3   |
| Gastropoda <5mm              | 1                 | 64.0        | 7            | 22         | 0.3   |
| Hyperiididae <5mm            | 1                 | 64.0        | 7            | 22         | 0.3   |
| Neocalanus plumchrus C-2     | 1                 | 32.0        | 4            | 11         | 0.1   |
| Neocalanus plumchrus C-1     | 1                 | 32.0        | 4            | 11         | 0.1   |
| Neocalanus cristatus C-5     | 26                | 1.0         | 3            | 9          | 0.1   |
| Chaetognatha 5-20mm          | 24                | 1.0         | 3            | 8          | 0.1   |
| Calanus pacificus - adult F  | 3                 | 1.9         | 1            | 2          | < 0.1 |
| Euphausiacea - calyptopis 3  | 3                 | 1.9         | 1            | 2          | < 0.1 |
| Eucalanus bungii - adult F   | 4                 | 1.0         | < 1          | 1          | < 0.1 |
| Euphausiacea - calyptopis 1  | 2                 | 1.9         | < 1          | 1          | < 0.1 |
| Siphonophora >5mm            | 3                 | 1.0         | < 1          | 1          | < 0.1 |
| Gammaridea >5mm              | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Thysanoessa inermis A&J      | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Calanus pacificus - adult M  | 1                 | 1.9         | < 1          | 1          | < 0.1 |
| Eucalanus bungii C-5 M       | 1                 | 1.0         | < 1          | < 1        | < 0.1 |
| Euphausiacea A&J damaged     | 1                 | 1.0         | < 1          | < 1        | < 0.1 |



Hyperiidea &gt;5mm

|   |                 |                 |                 |                 |
|---|-----------------|-----------------|-----------------|-----------------|
| 1 | 1.0             | < 1             | < 1             | < 0.1           |
|   | <u>        </u> | <u>        </u> | <u>        </u> | <u>        </u> |
|   | 2670            | 8277            | 100.            |                 |

STA. G133A 56 11.7 N 155 16.0 W 10 May 85 9:28

DEPTH 29 SAMPLING INTERVAL 0 - 24 VOLUME FILTERED 62.2 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Cirripedia - nauplius <5mm   | 118               | 64.0        | 1214         | 2914       | 34.5  |
| Acartia spp.                 | 29                | 64.0        | 298          | 716        | 8.5   |
| Pseudocalanus spp. - adult M | 29                | 64.0        | 298          | 716        | 8.5   |
| Pseudocalanus spp. - adult F | 26                | 64.0        | 267          | 642        | 7.6   |
| Neocalanus plumchrus C-5     | 21                | 64.0        | 216          | 519        | 6.1   |
| Neocalanus plumchrus C-4     | 20                | 64.0        | 206          | 494        | 5.9   |
| Other Copepoda <2mm          | 14                | 64.0        | 144          | 346        | 4.1   |
| Calanus marshallae C-5       | 32                | 12.8        | 66           | 158        | 1.9   |
| Anomura - larva              | 6                 | 64.0        | 62           | 148        | 1.8   |
| Pseudocalanus spp. C-5 F     | 6                 | 64.0        | 62           | 148        | 1.8   |
| Brachyura - larva            | 6                 | 64.0        | 62           | 148        | 1.8   |
| Pseudocalanus spp. C-4 F     | 6                 | 64.0        | 62           | 148        | 1.8   |
| Polychaeta <5mm              | 6                 | 64.0        | 62           | 148        | 1.8   |
| Metridia pacifica C-5 M      | 23                | 12.8        | 47           | 114        | 1.3   |
| Calanus marshallae - adult F | 22                | 12.8        | 45           | 109        | 1.3   |
| Pseudocalanus spp. C-5 M     | 4                 | 64.0        | 41           | 99         | 1.2   |
| Metridia pacifica C-5 F      | 16                | 12.8        | 33           | 79         | 0.9   |
| Cirripedia - cypris <5mm     | 3                 | 64.0        | 31           | 74         | 0.9   |
| Pseudocalanus spp. C-4 M     | 3                 | 64.0        | 31           | 74         | 0.9   |
| Calanus marshallae C-4       | 13                | 12.8        | 27           | 64         | 0.8   |
| Metridia pacifica - adult M  | 11                | 12.8        | 23           | 54         | 0.6   |
| Other Copepoda damaged       | 2                 | 64.0        | 21           | 49         | 0.6   |
| Natantia - larva             | 2                 | 64.0        | 21           | 49         | 0.6   |
| Thecosomata <5mm             | 2                 | 64.0        | 21           | 49         | 0.6   |
| Neocalanus plumchrus C-3     | 9                 | 12.8        | 19           | 44         | 0.5   |
| Calanus marshallae C-3       | 9                 | 12.8        | 19           | 44         | 0.5   |
| Metridia pacifica C-4        | 9                 | 12.8        | 19           | 44         | 0.5   |
| Calanus marshallae C-2       | 8                 | 12.8        | 16           | 40         | 0.5   |
| Metridia pacifica - adult F  | 7                 | 12.8        | 14           | 35         | 0.4   |
| Calanus marshallae - adult M | 6                 | 12.8        | 12           | 30         | 0.4   |
| ?Pseudocalanus spp. C-3      | 1                 | 64.0        | 10           | 25         | 0.3   |
| Larvacea                     | 1                 | 64.0        | 10           | 25         | 0.3   |
| Euphausiacea - calyptopis 2  | 5                 | 12.8        | 10           | 25         | 0.3   |
| Calanus marshallae C-1       | 5                 | 12.8        | 10           | 25         | 0.3   |
| Oithona spp.                 | 3                 | 12.8        | 6            | 15         | 0.2   |
| Neocalanus plumchrus C-2     | 2                 | 12.8        | 4            | 10         | 0.1   |
| Chaetognatha 5-20mm          | 13                | 1.0         | 2            | 5          | 0.1   |
| Neocalanus plumchrus C-1     | 1                 | 12.8        | 2            | 5          | 0.1   |
| Cnidaria - medusa >5mm       | 10                | 1.0         | 2            | 4          | < 0.1 |
| Neocalanus cristatus C-4     | 6                 | 1.0         | 1            | 2          | < 0.1 |
| Gammaridea >5mm              | 4                 | 1.0         | 1            | 2          | < 0.1 |
| Polychaeta >5mm              | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Gymnosomata >5mm             | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Chaetognatha >20mm           | 1                 | 1.0         | < 1          | < 1        | < 0.1 |
| Neocalanus cristatus C-5     | 1                 | 1.0         | < 1          | < 1        | < 0.1 |
| Eucalanus bungii - adult F   | 1                 | 1.0         | < 1          | < 1        | < 0.1 |

|                        |   |       |       |       |       |
|------------------------|---|-------|-------|-------|-------|
| Other zooplankton >5mm | 1 | 1.0   | < 1   | < 1   | < 0.1 |
| Hyperiidia >5mm        | 1 | 1.0   | < 1   | < 1   | < 0.1 |
|                        |   | ----- | ----- | ----- |       |
|                        |   | 3517  | 8441  | 100.  |       |

STA. G134A      56 23.3 N      155 12.0 W      10 May 85      10:38

DEPTH                      SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
35                      0 - 28                      62.4                      333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Cirripedia - nauplius <5mm   | 182               | 32.0        | 933          | 2613       | 42.7  |
| Acartia spp.                 | 42                | 32.0        | 215          | 603        | 9.9   |
| Pseudocalanus spp. - adult F | 38                | 32.0        | 195          | 546        | 8.9   |
| Pseudocalanus spp. - adult M | 30                | 32.0        | 154          | 431        | 7.0   |
| Pseudocalanus spp. C-5 F     | 28                | 32.0        | 144          | 402        | 6.6   |
| Pseudocalanus spp. C-5 M     | 25                | 32.0        | 128          | 359        | 5.9   |
| Neocalanus plumchrus C-4     | 36                | 10.7        | 62           | 173        | 2.8   |
| Neocalanus plumchrus C-5     | 29                | 10.7        | 50           | 139        | 2.3   |
| Brachyura - larva            | 9                 | 32.0        | 46           | 129        | 2.1   |
| Anomura - larva              | 8                 | 32.0        | 41           | 115        | 1.9   |
| Calanus marshallae C-2       | 23                | 10.7        | 39           | 110        | 1.8   |
| Pseudocalanus spp. C-4 F     | 5                 | 32.0        | 26           | 72         | 1.2   |
| Pseudocalanus spp. C-4 M     | 4                 | 32.0        | 21           | 57         | 0.9   |
| ?Pseudocalanus spp. C-3      | 4                 | 32.0        | 21           | 57         | 0.9   |
| Other Copepoda <2mm          | 3                 | 32.0        | 15           | 43         | 0.7   |
| Calanus marshallae C-1       | 7                 | 10.7        | 12           | 34         | 0.5   |
| Natantia - larva             | 2                 | 32.0        | 10           | 29         | 0.5   |
| Calanus marshallae C-5       | 21                | 2.9         | 10           | 27         | 0.4   |
| Calanus marshallae C-3       | 5                 | 10.7        | 9            | 24         | 0.4   |
| Neocalanus plumchrus C-3     | 4                 | 10.7        | 7            | 19         | 0.3   |
| Metridia pacifica C-4        | 13                | 2.9         | 6            | 17         | 0.3   |
| Thecosomata <5mm             | 1                 | 32.0        | 5            | 14         | 0.2   |
| Calanus marshallae C-4       | 11                | 2.9         | 5            | 14         | 0.2   |
| Metridia pacifica C-5 F      | 10                | 2.9         | 5            | 13         | 0.2   |
| Calanus marshallae - adult F | 9                 | 2.9         | 4            | 12         | 0.2   |
| Neocalanus plumchrus C-2     | 2                 | 10.7        | 3            | 10         | 0.2   |
| Euphausiacea - furcilia      | 2                 | 10.7        | 3            | 10         | 0.2   |
| Oithona spp.                 | 2                 | 10.7        | 3            | 10         | 0.2   |
| Metridia pacifica C-5 M      | 5                 | 2.9         | 2            | 7          | 0.1   |
| Metridia pacifica - adult M  | 4                 | 2.9         | 2            | 5          | 0.1   |
| Metridia pacifica - adult F  | 4                 | 2.9         | 2            | 5          | 0.1   |
| Euphausiacea - calyptopis 3  | 1                 | 10.7        | 2            | 5          | 0.1   |
| Neocalanus plumchrus C-1     | 1                 | 10.7        | 2            | 5          | 0.1   |
| Hyperiidia >5mm              | 7                 | 1.0         | 1            | 3          | 0.1   |
| Chaetognatha 5-20mm          | 4                 | 1.0         | 1            | 2          | < 0.1 |
| Cnidaria - medusa >5mm       | 4                 | 1.0         | 1            | 2          | < 0.1 |
| Polychaeta >5mm              | 3                 | 1.0         | < 1          | 1          | < 0.1 |
| Calanus marshallae - adult M | 1                 | 2.9         | < 1          | 1          | < 0.1 |
| Neocalanus cristatus C-4     | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Gammaridea >5mm              | 2                 | 1.0         | < 1          | 1          | < 0.1 |
| Neocalanus cristatus C-5     | 1                 | 1.0         | < 1          | < 1        | < 0.1 |
|                              |                   |             | 2186         | 6120       | 100.  |

STA. G152A      58 40.2 N      153 18.0 W      11 May 85      21:19

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
103                      0 - 87                  137.7                  333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Euphausiacea - nauplius      | 51                | 512.0       | 1897         | 16500      | 10.1 |
| Euphausiacea - calyptopis 1  | 33                | 512.0       | 1227         | 10676      | 6.6  |
| Pseudocalanus spp. - adult F | 30                | 512.0       | 1116         | 9706       | 6.0  |
| Cirripedia - nauplius <5mm   | 29                | 512.0       | 1078         | 9382       | 5.8  |
| Neocalanus plumchrus C-5     | 28                | 512.0       | 1041         | 9059       | 5.6  |
| Larvacea                     | 28                | 512.0       | 1041         | 9059       | 5.6  |
| Euphausiacea - calyptopis 2  | 26                | 512.0       | 967          | 8412       | 5.2  |
| Invertebrata - egg <5mm      | 21                | 512.0       | 781          | 6794       | 4.2  |
| Pseudocalanus spp. C-5 F     | 21                | 512.0       | 781          | 6794       | 4.2  |
| Pseudocalanus spp. C-5 M     | 19                | 512.0       | 707          | 6147       | 3.8  |
| Pseudocalanus spp. - adult M | 17                | 512.0       | 632          | 5500       | 3.4  |
| Metridia pacifica - adult F  | 17                | 512.0       | 632          | 5500       | 3.4  |
| Metridia pacifica C-5 M      | 16                | 512.0       | 595          | 5176       | 3.2  |
| Eucalanus bungii C-1         | 14                | 512.0       | 521          | 4529       | 2.8  |
| Neocalanus plumchrus C-4     | 14                | 512.0       | 521          | 4529       | 2.8  |
| Euphausiacea - calyptopis 3  | 12                | 512.0       | 446          | 3882       | 2.4  |
| Metridia pacifica C-5 F      | 12                | 512.0       | 446          | 3882       | 2.4  |
| Eucalanus bungii C-2         | 11                | 512.0       | 409          | 3559       | 2.2  |
| Bryozoa - cyphonautes <5mm   | 9                 | 512.0       | 335          | 2912       | 1.8  |
| Calanus marshallae C-2       | 9                 | 512.0       | 335          | 2912       | 1.8  |
| Other Copepoda - nauplius    | 8                 | 512.0       | 297          | 2588       | 1.6  |
| Gastropoda - veliger <5mm    | 7                 | 512.0       | 260          | 2265       | 1.4  |
| Calanus marshallae C-1       | 7                 | 512.0       | 260          | 2265       | 1.4  |
| Euphausiacea - furcilia      | 7                 | 512.0       | 260          | 2265       | 1.4  |
| Metridia pacifica C-4        | 7                 | 512.0       | 260          | 2265       | 1.4  |
| Calanus marshallae C-3       | 6                 | 512.0       | 223          | 1941       | 1.2  |
| Metriididae C-3              | 5                 | 512.0       | 186          | 1618       | 1.0  |
| Pseudocalanus spp. C-4 F     | 5                 | 512.0       | 186          | 1618       | 1.0  |
| Metridia pacifica - adult M  | 4                 | 512.0       | 149          | 1294       | 0.8  |
| Thecosomata <5mm             | 4                 | 512.0       | 149          | 1294       | 0.8  |
| Oithona spp.                 | 3                 | 512.0       | 112          | 971        | 0.6  |
| Cirripedia - cypris <5mm     | 3                 | 512.0       | 112          | 971        | 0.6  |
| Other Copepoda <2mm          | 3                 | 512.0       | 112          | 971        | 0.6  |
| Neocalanus plumchrus C-3     | 3                 | 512.0       | 112          | 971        | 0.6  |
| Echinodermata - larva <5mm   | 2                 | 512.0       | 74           | 647        | 0.4  |
| Anomura - larva              | 2                 | 512.0       | 74           | 647        | 0.4  |
| Eucalanus bungii C-3         | 2                 | 512.0       | 74           | 647        | 0.4  |
| Calanus marshallae C-4       | 2                 | 512.0       | 74           | 647        | 0.4  |
| Polychaeta <5mm              | 2                 | 512.0       | 74           | 647        | 0.4  |
| Acartia spp.                 | 1                 | 512.0       | 37           | 324        | 0.2  |
| Neocalanus plumchrus C-2     | 1                 | 512.0       | 37           | 324        | 0.2  |
| Pseudocalanus spp. C-4 M     | 1                 | 512.0       | 37           | 324        | 0.2  |
| Chaetognatha 5-20mm          | 49                | 4.0         | 14           | 124        | 0.1  |
| Teleostei - larva >5mm       | 44                | 4.0         | 13           | 111        | 0.1  |
| Neocalanus cristatus C-5     | 40                | 4.0         | 12           | 101        | 0.1  |
| Eucalanus bungii - adult F   | 36                | 4.0         | 10           | 91         | 0.1  |

|                                |    |     |       |        |       |
|--------------------------------|----|-----|-------|--------|-------|
| Neocalanus cristatus C-4       | 14 | 4.0 | 4     | 35     | < 0.1 |
| Cnidaria - medusa >5mm         | 7  | 4.0 | 2     | 18     | < 0.1 |
| Siphonophora >5mm              | 2  | 4.0 | 1     | 5      | < 0.1 |
| Neocalanus plumchrus - adult F | 2  | 4.0 | 1     | 5      | < 0.1 |
| Eucalanus bungii C-5 F         | 2  | 4.0 | 1     | 5      | < 0.1 |
| Thysanoessa inermis A&J        | 1  | 4.0 | < 1   | 3      | < 0.1 |
| Eucalanus bungii - adult M     | 1  | 4.0 | < 1   | 3      | < 0.1 |
|                                |    |     | ----- | -----  | ----- |
|                                |    |     | 18725 | 162911 | 100.  |

STA. G153A      58 35.2 N      153 05.0 W      11 May 85      22:19

DEPTH                      SAMPLING INTERVAL                      VOLUME FILTERED                      NET MESH  
166                              0 - 140                              205.1                              333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Neocalanus plumchrus C-5       | 98                | 256.0       | 1223         | 17125      | 10.5 |
| Invertebrata - egg <5mm        | 87                | 256.0       | 1086         | 15203      | 9.3  |
| Pseudocalanus spp. - adult F   | 67                | 256.0       | 836          | 11708      | 7.2  |
| Larvacea                       | 47                | 256.0       | 587          | 8213       | 5.0  |
| Cirripedia - nauplius <5mm     | 41                | 256.0       | 512          | 7164       | 4.4  |
| Metridia pacifica C-5 M        | 38                | 256.0       | 474          | 6640       | 4.1  |
| Pseudocalanus spp. C-5 F       | 36                | 256.0       | 449          | 6291       | 3.9  |
| Euphausiacea - nauplius        | 34                | 256.0       | 424          | 5941       | 3.6  |
| Metridia pacifica - adult M    | 30                | 256.0       | 374          | 5242       | 3.2  |
| Pseudocalanus spp. C-5 M       | 29                | 256.0       | 362          | 5068       | 3.1  |
| Eucalanus bungii C-2           | 29                | 256.0       | 362          | 5068       | 3.1  |
| Metridia pacifica C-5 F        | 28                | 256.0       | 349          | 4893       | 3.0  |
| Neocalanus plumchrus C-4       | 24                | 256.0       | 300          | 4194       | 2.6  |
| Metridia pacifica C-4          | 23                | 256.0       | 287          | 4019       | 2.5  |
| Euphausiacea - calyptopis 1    | 23                | 256.0       | 287          | 4019       | 2.5  |
| Acartia spp.                   | 19                | 256.0       | 237          | 3320       | 2.0  |
| Other Copepoda <2mm            | 19                | 256.0       | 237          | 3320       | 2.0  |
| Pseudocalanus spp. - adult M   | 19                | 256.0       | 237          | 3320       | 2.0  |
| Metridia pacifica - adult F    | 18                | 256.0       | 225          | 3145       | 1.9  |
| Metriididae C-3                | 18                | 256.0       | 225          | 3145       | 1.9  |
| Euphausiacea - furcilia        | 16                | 256.0       | 200          | 2796       | 1.7  |
| Oithona spp.                   | 15                | 256.0       | 187          | 2621       | 1.6  |
| Pseudocalanus spp. C-4 F       | 14                | 256.0       | 175          | 2446       | 1.5  |
| Neocalanus plumchrus C-3       | 13                | 256.0       | 162          | 2272       | 1.4  |
| Euphausiacea - calyptopis 2    | 13                | 256.0       | 162          | 2272       | 1.4  |
| Other Copepoda - nauplius      | 12                | 256.0       | 150          | 2097       | 1.3  |
| Eucalanus bungii C-1           | 12                | 256.0       | 150          | 2097       | 1.3  |
| Pseudocalanus spp. C-4 M       | 9                 | 256.0       | 112          | 1573       | 1.0  |
| Polychaeta <5mm                | 9                 | 256.0       | 112          | 1573       | 1.0  |
| Eucalanus bungii C-3           | 9                 | 256.0       | 112          | 1573       | 1.0  |
| Cirripedia - cypris <5mm       | 8                 | 256.0       | 100          | 1398       | 0.9  |
| Thecosomata <5mm               | 8                 | 256.0       | 100          | 1398       | 0.9  |
| Brachyura - larva              | 8                 | 256.0       | 100          | 1398       | 0.9  |
| Calanus marshallae C-2         | 6                 | 256.0       | 75           | 1048       | 0.6  |
| Bryozoa - cyphonautes <5mm     | 6                 | 256.0       | 75           | 1048       | 0.6  |
| Euphausiacea - calyptopis 3    | 5                 | 256.0       | 62           | 874        | 0.5  |
| Calanus marshallae C-4         | 4                 | 256.0       | 50           | 699        | 0.4  |
| Neocalanus plumchrus - adult M | 4                 | 256.0       | 50           | 699        | 0.4  |
| Neocalanus plumchrus C-2       | 4                 | 256.0       | 50           | 699        | 0.4  |
| Siphonophora <5mm              | 3                 | 256.0       | 37           | 524        | 0.3  |
| Ostracoda <5mm                 | 3                 | 256.0       | 37           | 524        | 0.3  |
| Natantia - larva               | 3                 | 256.0       | 37           | 524        | 0.3  |
| Neocalanus cristatus C-5       | 81                | 8.0         | 32           | 442        | 0.3  |
| Other Copepoda 2-5mm           | 2                 | 256.0       | 25           | 349        | 0.2  |
| Calanus marshallae C-5         | 2                 | 256.0       | 25           | 349        | 0.2  |
| Neocalanus cristatus C-1       | 2                 | 256.0       | 25           | 349        | 0.2  |

|                            |    |       |        |       |       |
|----------------------------|----|-------|--------|-------|-------|
| Metriididae C-2            | 2  | 256.0 | 25     | 349   | 0.2   |
| Neocalanus cristatus C-4   | 35 | 8.0   | 14     | 191   | 0.1   |
| Hyperiidea <5mm            | 1  | 256.0 | 12     | 175   | 0.1   |
| Metriididae C-1            | 1  | 256.0 | 12     | 175   | 0.1   |
| Calanus pacificus C-5      | 1  | 256.0 | 12     | 175   | 0.1   |
| Eucalanus bungii C-4 M     | 1  | 256.0 | 12     | 175   | 0.1   |
| Echinodermata - larva <5mm | 1  | 256.0 | 12     | 175   | 0.1   |
| Anomura - larva            | 1  | 256.0 | 12     | 175   | 0.1   |
| Other zooplankton <5mm     | 1  | 256.0 | 12     | 175   | 0.1   |
| Gastropoda - veliger <5mm  | 1  | 256.0 | 12     | 175   | 0.1   |
| Chaetognatha 5-20mm        | 26 | 8.0   | 10     | 142   | 0.1   |
| Chaetognatha >20mm         | 17 | 8.0   | 7      | 93    | 0.1   |
| Eucalanus bungii - adult F | 8  | 8.0   | 3      | 44    | < 0.1 |
| Teleostei - larva >5mm     | 7  | 8.0   | 3      | 38    | < 0.1 |
| Siphonophora >5mm          | 5  | 8.0   | 2      | 27    | < 0.1 |
| Eucalanus bungii C-5 F     | 3  | 8.0   | 1      | 16    | < 0.1 |
| Gymnosomata >5mm           | 2  | 8.0   | 1      | 11    | < 0.1 |
| Hyperiidea >5mm            | 2  | 8.0   | 1      | 11    | < 0.1 |
| Cnidaria - medusa >5mm     | 2  | 8.0   | 1      | 11    | < 0.1 |
| Eucalanus bungii C-5 M     | 2  | 8.0   | 1      | 11    | < 0.1 |
| Polychaeta >5mm            | 1  | 8.0   | < 1    | 5     | < 0.1 |
| Natantia A&J >5mm          | 1  | 8.0   | < 1    | 5     | < 0.1 |
| Mysidacea >5mm             | 1  | 8.0   | < 1    | 5     | < 0.1 |
| Eucalanus bungii - adult M | 1  | 8.0   | < 1    | 5     | < 0.1 |
| Other Copepoda >5mm        | 1  | 8.0   | < 1    | 5     | < 0.1 |
|                            |    | ----- | -----  | ----- |       |
|                            |    | 11646 | 163051 | 100.  |       |



STA. G154A      58 30.6 N      152 52.0 W      11 May 85      23:19

DEPTH                  SAMPLING INTERVAL      VOLUME FILTERED      NET MESH  
216                      0 - 187                  258.2                  333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %   |
|--------------------------------|-------------------|-------------|--------------|------------|-----|
| Pseudocalanus spp. - adult F   | 111               | 256.0       | 1101         | 20583      | 9.5 |
| Cirripedia - nauplius <5mm     | 106               | 256.0       | 1051         | 19656      | 9.1 |
| Larvacea                       | 102               | 256.0       | 1011         | 18914      | 8.7 |
| Euphausiacea - calyptopis 1    | 99                | 256.0       | 982          | 18358      | 8.5 |
| Pseudocalanus spp. - adult M   | 76                | 256.0       | 754          | 14093      | 6.5 |
| Euphausiacea - nauplius        | 75                | 256.0       | 744          | 13907      | 6.4 |
| Invertebrata - egg <5mm        | 60                | 256.0       | 595          | 11126      | 5.1 |
| Neocalanus plumchrus C-5       | 57                | 256.0       | 565          | 10570      | 4.9 |
| Euphausiacea - calyptopis 2    | 40                | 256.0       | 397          | 7417       | 3.4 |
| Neocalanus plumchrus C-4       | 36                | 256.0       | 357          | 6675       | 3.1 |
| Pseudocalanus spp. C-5 M       | 36                | 256.0       | 357          | 6675       | 3.1 |
| Pseudocalanus spp. C-5 F       | 31                | 256.0       | 307          | 5748       | 2.7 |
| Metridia pacifica - adult M    | 29                | 256.0       | 288          | 5377       | 2.5 |
| Metridia pacifica C-5 F        | 29                | 256.0       | 288          | 5377       | 2.5 |
| Metridia pacifica - adult F    | 27                | 256.0       | 268          | 5007       | 2.3 |
| Metridia pacifica C-5 M        | 23                | 256.0       | 228          | 4265       | 2.0 |
| Eucalanus bungii C-2           | 21                | 256.0       | 208          | 3894       | 1.8 |
| Other Copepoda - nauplius      | 19                | 256.0       | 188          | 3523       | 1.6 |
| Oithona spp.                   | 18                | 256.0       | 178          | 3338       | 1.5 |
| Metridia pacifica C-4          | 16                | 256.0       | 159          | 2967       | 1.4 |
| Euphausiacea - calyptopis 3    | 14                | 256.0       | 139          | 2596       | 1.2 |
| Neocalanus plumchrus C-3       | 12                | 256.0       | 119          | 2225       | 1.0 |
| Metriididae C-3                | 12                | 256.0       | 119          | 2225       | 1.0 |
| Other Copepoda <2mm            | 11                | 256.0       | 109          | 2040       | 0.9 |
| Pseudocalanus spp. C-4 M       | 10                | 256.0       | 99           | 1854       | 0.9 |
| Bryozoa - cyphonautes <5mm     | 9                 | 256.0       | 89           | 1669       | 0.8 |
| Eucalanus bungii C-3           | 8                 | 256.0       | 79           | 1483       | 0.7 |
| Polychaeta <5mm                | 8                 | 256.0       | 79           | 1483       | 0.7 |
| Calanus marshallae C-3         | 7                 | 256.0       | 69           | 1298       | 0.6 |
| Thecosomata <5mm               | 6                 | 256.0       | 59           | 1113       | 0.5 |
| Echinodermata - larva <5mm     | 6                 | 256.0       | 59           | 1113       | 0.5 |
| Pseudocalanus spp. C-4 F       | 5                 | 256.0       | 50           | 927        | 0.4 |
| Cirripedia - cypris <5mm       | 5                 | 256.0       | 50           | 927        | 0.4 |
| Acartia spp.                   | 5                 | 256.0       | 50           | 927        | 0.4 |
| Neocalanus plumchrus - adult M | 4                 | 256.0       | 40           | 742        | 0.3 |
| Eucalanus bungii C-1           | 4                 | 256.0       | 40           | 742        | 0.3 |
| Calanus marshallae C-1         | 3                 | 256.0       | 30           | 556        | 0.3 |
| Natantia - larva               | 3                 | 256.0       | 30           | 556        | 0.3 |
| Calanus marshallae C-2         | 3                 | 256.0       | 30           | 556        | 0.3 |
| Euphausiacea - furcilia        | 2                 | 256.0       | 20           | 371        | 0.2 |
| Ostracoda <5mm                 | 2                 | 256.0       | 20           | 371        | 0.2 |
| Brachyura - larva              | 2                 | 256.0       | 20           | 371        | 0.2 |
| Neocalanus plumchrus C-2       | 2                 | 256.0       | 20           | 371        | 0.2 |
| Neocalanus cristatus C-5       | 57                | 8.0         | 18           | 330        | 0.2 |
| Chaetognatha 5-20mm            | 52                | 8.0         | 16           | 301        | 0.1 |
| Calanus marshallae C-5         | 1                 | 256.0       | 10           | 185        | 0.1 |

|                             |    |       |        |       |       |
|-----------------------------|----|-------|--------|-------|-------|
| Anomura - larva             | 1  | 256.0 | 10     | 185   | 0.1   |
| Gastropoda - veliger <5mm   | 1  | 256.0 | 10     | 185   | 0.1   |
| ?Pseudocalanus spp. C-3     | 1  | 256.0 | 10     | 185   | 0.1   |
| Calanus pacificus - adult F | 1  | 256.0 | 10     | 185   | 0.1   |
| Calanus marshallae C-4      | 1  | 256.0 | 10     | 185   | 0.1   |
| Neocalanus cristatus C-4    | 19 | 8.0   | 6      | 110   | 0.1   |
| Eucalanus bungii - adult F  | 16 | 8.0   | 5      | 93    | < 0.1 |
| Chaetognatha >20mm          | 14 | 8.0   | 4      | 81    | < 0.1 |
| Teleostei - larva >5mm      | 8  | 8.0   | 2      | 46    | < 0.1 |
| Polychaeta >5mm             | 5  | 8.0   | 2      | 29    | < 0.1 |
| Thysanoessa inermis A&J     | 5  | 8.0   | 2      | 29    | < 0.1 |
| Cnidaria - medusa >5mm      | 3  | 8.0   | 1      | 17    | < 0.1 |
| Siphonophora >5mm           | 2  | 8.0   | 1      | 12    | < 0.1 |
| Thysanoessa spinifera A&J   | 2  | 8.0   | 1      | 12    | < 0.1 |
| Gammaridea >5mm             | 2  | 8.0   | 1      | 12    | < 0.1 |
| Other Copepoda >5mm         | 1  | 8.0   | < 1    | 6     | < 0.1 |
| Eucalanus bungii C-5 F      | 1  | 8.0   | < 1    | 6     | < 0.1 |
| Eucalanus bungii - adult M  | 1  | 8.0   | < 1    | 6     | < 0.1 |
| Euphausia pacifica A&J      | 1  | 8.0   | < 1    | 6     | < 0.1 |
|                             |    | ----- | -----  | ----- |       |
|                             |    | 11561 | 216195 | 100.  |       |

Appendix 4. Abundance of zooplankton taxa at each station sampled during FOX85-IV, cruise 2DI85 in Shelikof Strait, 24-28 July 1985.

STA. 001 55 24.0 N 155 29.9 W 25 Jul 85 9:54

DEPTH 310 SAMPLING INTERVAL 0 - 300 VOLUME FILTERED 393.8 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|------------------------------|-------------------|-------------|--------------|------------|------|
| Metridia pacifica - adult F  | 115               | 256.0       | 748          | 22430      | 27.5 |
| Metridia pacifica C-5 F      | 64                | 256.0       | 416          | 12483      | 15.3 |
| Metridia pacifica C-5 M      | 38                | 256.0       | 247          | 7412       | 9.1  |
| Invertebrata - egg <5mm      | 20                | 256.0       | 130          | 3901       | 4.8  |
| Other Copepoda <2mm          | 32                | 128.0       | 104          | 3121       | 3.8  |
| Oithona spp.                 | 31                | 128.0       | 101          | 3023       | 3.7  |
| Eucalanus bungii C-4 F       | 14                | 256.0       | 91           | 2731       | 3.3  |
| Eucalanus bungii C-4 M       | 13                | 256.0       | 85           | 2536       | 3.1  |
| Eucalanus bungii C-3         | 11                | 256.0       | 72           | 2146       | 2.6  |
| Metridia pacifica C-4        | 22                | 128.0       | 72           | 2146       | 2.6  |
| Chaetognatha <5mm            | 22                | 128.0       | 72           | 2146       | 2.6  |
| Hyperiididae <5mm            | 20                | 128.0       | 65           | 1950       | 2.4  |
| Ostracoda <5mm               | 18                | 128.0       | 59           | 1755       | 2.2  |
| Thecosomata <5mm             | 12                | 128.0       | 39           | 1170       | 1.4  |
| Metriididae C-3              | 11                | 128.0       | 36           | 1073       | 1.3  |
| Chaetognatha 5-20mm          | 85                | 16.0        | 35           | 1036       | 1.3  |
| Pseudocalanus spp. - adult F | 9                 | 128.0       | 29           | 878        | 1.1  |
| Other Copepoda 2-5mm         | 9                 | 128.0       | 29           | 878        | 1.1  |
| Eucalanus bungii C-5 F       | 70                | 16.0        | 28           | 853        | 1.0  |
| Foraminifera <5mm            | 7                 | 128.0       | 23           | 683        | 0.8  |
| Neocalanus plumchrus C-5     | 7                 | 128.0       | 23           | 683        | 0.8  |
| Eucalanus bungii C-2         | 3                 | 256.0       | 20           | 585        | 0.7  |
| Cnidaria - medusa <5mm       | 6                 | 128.0       | 20           | 585        | 0.7  |
| Acartia spp.                 | 6                 | 128.0       | 20           | 585        | 0.7  |
| Eucalanus bungii C-5 M       | 44                | 16.0        | 18           | 536        | 0.7  |
| Pseudocalanus spp. - adult M | 4                 | 128.0       | 13           | 390        | 0.5  |
| Calanus pacificus C-5        | 4                 | 128.0       | 13           | 390        | 0.5  |
| Hyperiididae >5mm            | 32                | 16.0        | 13           | 390        | 0.5  |
| Euphausiacea - furcilia      | 3                 | 128.0       | 10           | 293        | 0.4  |
| Siphonophora <5mm            | 2                 | 128.0       | 7            | 195        | 0.2  |
| Polychaeta <5mm              | 2                 | 128.0       | 7            | 195        | 0.2  |
| Brachyura - larva            | 2                 | 128.0       | 7            | 195        | 0.2  |
| Unidentified Calanoida C-2   | 2                 | 128.0       | 7            | 195        | 0.2  |
| Metridia pacifica - adult M  | 1                 | 256.0       | 7            | 195        | 0.2  |
| Eucalanus bungii - adult F   | 16                | 16.0        | 7            | 195        | 0.2  |
| Cnidaria - medusa >5mm       | 14                | 16.0        | 6            | 171        | 0.2  |
| Siphonophora >5mm            | 12                | 16.0        | 5            | 146        | 0.2  |
| Neocalanus cristatus C-4     | 11                | 16.0        | 4            | 134        | 0.2  |
| Chaetognatha >20mm           | 11                | 16.0        | 4            | 134        | 0.2  |
| Pseudocalanus spp. C-5 F     | 1                 | 128.0       | 3            | 98         | 0.1  |
| Gymnosomata <5mm             | 1                 | 128.0       | 3            | 98         | 0.1  |
| Metriididae C-2              | 1                 | 128.0       | 3            | 98         | 0.1  |
| Unidentified Calanoida C-3   | 1                 | 128.0       | 3            | 98         | 0.1  |
| Larvacea                     | 1                 | 128.0       | 3            | 98         | 0.1  |
| Thysanoessa inspinata A&J    | 7                 | 16.0        | 3            | 85         | 0.1  |
| Polychaeta >5mm              | 6                 | 16.0        | 2            | 73         | 0.1  |

|                            |   |      |       |       |       |
|----------------------------|---|------|-------|-------|-------|
| Euphausia pacifica A&J     | 6 | 16.0 | 2     | 73    | 0.1   |
| Neocalanus cristatus C-5   | 6 | 16.0 | 2     | 73    | 0.1   |
| Teleostei - larva >5mm     | 5 | 16.0 | 2     | 61    | 0.1   |
| Other Copepoda >5mm        | 5 | 16.0 | 2     | 61    | 0.1   |
| Thysanoessa longipes A&J   | 4 | 16.0 | 2     | 49    | 0.1   |
| Thysanoessa spinifera A&J  | 3 | 16.0 | 1     | 37    | < 0.1 |
| Eucalanus bungii - adult M | 1 | 16.0 | < 1   | 12    | < 0.1 |
| Euphausiacea A&J damaged   | 1 | 16.0 | < 1   | 12    | < 0.1 |
| Gymnosomata >5mm           | 1 | 16.0 | < 1   | 12    | < 0.1 |
|                            |   |      | ----- | ----- | ----- |
|                            |   |      | 2719  | 81578 | 100.  |

STA. 008 55 56.6 N 156 22.3 W 26 Jul 85 2:10

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH  
235 0 - 230 374.3 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Pseudocalanus spp. - adult F   | 179               | 128.0       | 612          | 14080      | 14.0 |
| Metridia pacifica C-4          | 162               | 128.0       | 554          | 12743      | 12.7 |
| Oithona spp.                   | 114               | 128.0       | 390          | 8967       | 8.9  |
| Metriididae C-3                | 102               | 128.0       | 349          | 8023       | 8.0  |
| Metridia pacifica C-5 M        | 95                | 128.0       | 325          | 7473       | 7.4  |
| Metridia pacifica C-5 F        | 82                | 128.0       | 280          | 6450       | 6.4  |
| Metridia pacifica - adult F    | 68                | 128.0       | 233          | 5349       | 5.3  |
| Cnidaria - medusa <5mm         | 59                | 128.0       | 202          | 4641       | 4.6  |
| Eucalanus bungii C-5 F         | 157               | 32.0        | 134          | 3087       | 3.1  |
| Thecosomata <5mm               | 33                | 128.0       | 113          | 2596       | 2.6  |
| Pseudocalanus spp. C-5 M       | 32                | 128.0       | 109          | 2517       | 2.5  |
| Neocalanus plumchrus C-5       | 32                | 128.0       | 109          | 2517       | 2.5  |
| Metridia pacifica - adult M    | 31                | 128.0       | 106          | 2438       | 2.4  |
| Pseudocalanus spp. C-5 F       | 27                | 128.0       | 92           | 2124       | 2.1  |
| Other Copepoda <2mm            | 26                | 128.0       | 89           | 2045       | 2.0  |
| Eucalanus bungii C-5 M         | 101               | 32.0        | 86           | 1986       | 2.0  |
| Chaetognatha 5-20mm            | 94                | 32.0        | 80           | 1849       | 1.8  |
| Calanus marshallae C-5         | 22                | 128.0       | 75           | 1731       | 1.7  |
| Euphausiacea A&J damaged       | 18                | 128.0       | 62           | 1416       | 1.4  |
| Pseudocalanus spp. - adult M   | 14                | 128.0       | 48           | 1101       | 1.1  |
| Calanus marshallae - adult F   | 13                | 128.0       | 44           | 1023       | 1.0  |
| Other Copepoda 2-5mm           | 7                 | 128.0       | 24           | 551        | 0.5  |
| Invertebrata - egg <5mm        | 7                 | 128.0       | 24           | 551        | 0.5  |
| Eucalanus bungii C-4 F         | 7                 | 128.0       | 24           | 551        | 0.5  |
| Larvacea                       | 6                 | 128.0       | 21           | 472        | 0.5  |
| Neocalanus plumchrus - adult F | 6                 | 128.0       | 21           | 472        | 0.5  |
| Eucalanus bungii C-4 M         | 5                 | 128.0       | 17           | 393        | 0.4  |
| Eucalanus bungii C-3           | 4                 | 128.0       | 14           | 315        | 0.3  |
| Gymnosomata <5mm               | 4                 | 128.0       | 14           | 315        | 0.3  |
| Chaetognatha <5mm              | 4                 | 128.0       | 14           | 315        | 0.3  |
| Cnidaria - medusa >5mm         | 42                | 10.7        | 12           | 276        | 0.3  |
| Other Copepoda damaged         | 3                 | 128.0       | 10           | 236        | 0.2  |
| Hyperiididea <5mm              | 2                 | 128.0       | 7            | 157        | 0.2  |
| Brachyura - larva              | 2                 | 128.0       | 7            | 157        | 0.2  |
| Pseudocalanus spp. C-4 F       | 2                 | 128.0       | 7            | 157        | 0.2  |
| Neocalanus plumchrus - adult M | 2                 | 128.0       | 7            | 157        | 0.2  |
| Eucalanus bungii - adult M     | 6                 | 32.0        | 5            | 118        | 0.1  |
| Thysanoessa inermis A&J        | 17                | 10.7        | 5            | 112        | 0.1  |
| Neocalanus cristatus C-5       | 16                | 10.7        | 5            | 105        | 0.1  |
| Acartia spp.                   | 1                 | 128.0       | 3            | 79         | 0.1  |
| Calanus marshallae C-4         | 1                 | 128.0       | 3            | 79         | 0.1  |
| Bivalvia <5mm                  | 1                 | 128.0       | 3            | 79         | 0.1  |
| Calanus pacificus C-5          | 1                 | 128.0       | 3            | 79         | 0.1  |
| Neocalanus plumchrus C-4       | 1                 | 128.0       | 3            | 79         | 0.1  |
| Eucalanus bungii - adult F     | 4                 | 32.0        | 3            | 79         | 0.1  |
| Invertebrata <5mm              | 1                 | 128.0       | 3            | 79         | 0.1  |

|                           |   |      |       |        |       |
|---------------------------|---|------|-------|--------|-------|
| Euphausia pacifica A&J    | 9 | 10.7 | 3     | 59     | 0.1   |
| Chaetognatha >20mm        | 3 | 32.0 | 3     | 59     | 0.1   |
| Hyperiididea >5mm         | 7 | 10.7 | 2     | 46     | < 0.1 |
| Mysidacea >5mm            | 7 | 10.7 | 2     | 46     | < 0.1 |
| Gymnosomata >5mm          | 5 | 10.7 | 1     | 33     | < 0.1 |
| Siphonophora >5mm         | 4 | 10.7 | 1     | 26     | < 0.1 |
| Thysanoessa longipes A&J  | 3 | 10.7 | 1     | 20     | < 0.1 |
| Gammaridea >5mm           | 3 | 10.7 | 1     | 20     | < 0.1 |
| Thysanoessa spinifera A&J | 2 | 10.7 | 1     | 13     | < 0.1 |
| Thysanoessa raschii A&J   | 1 | 10.7 | < 1   | 7      | < 0.1 |
| Polychaeta >5mm           | 1 | 10.7 | < 1   | 7      | < 0.1 |
|                           |   |      | ----- | -----  | ----- |
|                           |   |      | 4367  | 100451 | 100.  |

STA. 016 56 21.5 N 156 54.0 W 26 Jul 85 14:42

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH  
127 0 - 115 196.8 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Thecosomata <5mm             | 205               | 128.0       | 1333         | 15334      | 35.3  |
| Pseudocalanus spp. - adult F | 109               | 128.0       | 709          | 8153       | 18.8  |
| Acartia spp.                 | 29                | 128.0       | 189          | 2169       | 5.0   |
| Pseudocalanus spp. C-5 F     | 23                | 128.0       | 150          | 1720       | 4.0   |
| Cnidaria - medusa <5mm       | 45                | 64.0        | 146          | 1683       | 3.9   |
| Pseudocalanus spp. C-5 M     | 21                | 128.0       | 137          | 1571       | 3.6   |
| Metridia pacifica C-4        | 27                | 64.0        | 88           | 1010       | 2.3   |
| Oithona spp.                 | 26                | 64.0        | 85           | 972        | 2.2   |
| Cnidaria - medusa >5mm       | 93                | 16.0        | 76           | 870        | 2.0   |
| Other Copepoda <2mm          | 23                | 64.0        | 75           | 860        | 2.0   |
| Metriididae C-3              | 20                | 64.0        | 65           | 748        | 1.7   |
| Pseudocalanus spp. - adult M | 8                 | 128.0       | 52           | 598        | 1.4   |
| Chaetognatha 5-20mm          | 63                | 16.0        | 51           | 589        | 1.4   |
| Brachyura - larva            | 15                | 64.0        | 49           | 561        | 1.3   |
| Metridia pacifica C-5 M      | 15                | 64.0        | 49           | 561        | 1.3   |
| Chaetognatha <5mm            | 14                | 64.0        | 46           | 524        | 1.2   |
| Cirripedia - cypris <5mm     | 13                | 64.0        | 42           | 486        | 1.1   |
| Metridia pacifica - adult M  | 12                | 64.0        | 39           | 449        | 1.0   |
| Euphausiacea - furcilia      | 11                | 64.0        | 36           | 411        | 0.9   |
| Invertebrata - egg <5mm      | 10                | 64.0        | 33           | 374        | 0.9   |
| Calanus marshallae C-3       | 9                 | 64.0        | 29           | 337        | 0.8   |
| Echinodermata - larva <5mm   | 8                 | 64.0        | 26           | 299        | 0.7   |
| Gymnosomata <5mm             | 8                 | 64.0        | 26           | 299        | 0.7   |
| Metridia pacifica - adult F  | 8                 | 64.0        | 26           | 299        | 0.7   |
| Hyperiididae <5mm            | 8                 | 64.0        | 26           | 299        | 0.7   |
| Calanus marshallae C-5       | 8                 | 64.0        | 26           | 299        | 0.7   |
| Chaetognatha >20mm           | 29                | 16.0        | 24           | 271        | 0.6   |
| Metridia pacifica C-5 F      | 7                 | 64.0        | 23           | 262        | 0.6   |
| Calanus marshallae C-2       | 5                 | 64.0        | 16           | 187        | 0.4   |
| Calanus marshallae C-4       | 5                 | 64.0        | 16           | 187        | 0.4   |
| Eucalanus bungii C-5 F       | 15                | 16.0        | 12           | 140        | 0.3   |
| Calanus marshallae - adult F | 3                 | 64.0        | 10           | 112        | 0.3   |
| Invertebrata <5mm            | 2                 | 64.0        | 7            | 75         | 0.2   |
| Other Copepoda damaged       | 2                 | 64.0        | 7            | 75         | 0.2   |
| Cladocera <5mm               | 2                 | 64.0        | 7            | 75         | 0.2   |
| Other Copepoda 2-5mm         | 2                 | 64.0        | 7            | 75         | 0.2   |
| Larvacea                     | 2                 | 64.0        | 7            | 75         | 0.2   |
| Thysanoessa inermis A&J      | 7                 | 16.0        | 6            | 65         | 0.2   |
| Eucalanus bungii C-5 M       | 6                 | 16.0        | 5            | 56         | 0.1   |
| Pseudocalanus spp. C-4 M     | 1                 | 64.0        | 3            | 37         | 0.1   |
| Eucalanus bungii C-3         | 1                 | 64.0        | 3            | 37         | 0.1   |
| Siphonophora <5mm            | 1                 | 64.0        | 3            | 37         | 0.1   |
| Gammaridea <5mm              | 1                 | 64.0        | 3            | 37         | 0.1   |
| Cumacea <5mm                 | 1                 | 64.0        | 3            | 37         | 0.1   |
| Calanus pacificus - adult F  | 1                 | 64.0        | 3            | 37         | 0.1   |
| Hyperiididae >5mm            | 2                 | 16.0        | 2            | 19         | < 0.1 |



|                            |   |       |       |       |       |
|----------------------------|---|-------|-------|-------|-------|
| Eucalanus bungii - adult F | 2 | 16.0  | 2     | 19    | < 0.1 |
| Teleostei - larva >5mm     | 1 | 16.0  | 1     | 9     | < 0.1 |
| Euphausia pacifica A&J     | 1 | 16.0  | 1     | 9     | < 0.1 |
| Neocalanus cristatus C-5   | 1 | 16.0  | 1     | 9     | < 0.1 |
| Eucalanus bungii - adult M | 1 | 16.0  | 1     | 9     | < 0.1 |
|                            |   | ----- | ----- | ----- |       |
|                            |   | 3777  | 43431 | 99.91 |       |

STA. 018 56 27.3 N 156 58.7 W 26 Jul 85 17:12

DEPTH 85 SAMPLING INTERVAL 0 - 73 VOLUME FILTERED 120.0 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Thecosomata <5mm             | 862               | 16.0        | 1150         | 8393       | 57.0  |
| Acartia spp.                 | 137               | 16.0        | 183          | 1334       | 9.1   |
| Brachyura - larva            | 136               | 16.0        | 181          | 1324       | 9.0   |
| Cnidaria - medusa >5mm       | 153               | 8.0         | 102          | 745        | 5.1   |
| Other Copepoda <2mm          | 45                | 16.0        | 60           | 438        | 3.0   |
| Cnidaria - medusa <5mm       | 41                | 16.0        | 55           | 399        | 2.7   |
| Oithona spp.                 | 33                | 16.0        | 44           | 321        | 2.2   |
| Pseudocalanus spp. - adult F | 30                | 16.0        | 40           | 292        | 2.0   |
| Cirripedia - cypris <5mm     | 26                | 16.0        | 35           | 253        | 1.7   |
| Echinodermata - larva <5mm   | 18                | 16.0        | 24           | 175        | 1.2   |
| Chaetognatha <5mm            | 16                | 16.0        | 21           | 156        | 1.1   |
| Gymnosomata <5mm             | 15                | 16.0        | 20           | 146        | 1.0   |
| Cirripedia - nauplius <5mm   | 13                | 16.0        | 17           | 127        | 0.9   |
| Pseudocalanus spp. C-5 F     | 9                 | 16.0        | 12           | 88         | 0.6   |
| Pseudocalanus spp. C-5 M     | 8                 | 16.0        | 11           | 78         | 0.5   |
| Natantia - larva             | 5                 | 16.0        | 7            | 49         | 0.3   |
| Gastropoda <5mm              | 4                 | 16.0        | 5            | 39         | 0.3   |
| Hyperiidia <5mm              | 4                 | 16.0        | 5            | 39         | 0.3   |
| Chaetognatha 5-20mm          | 62                | 1.0         | 5            | 38         | 0.3   |
| Other Copepoda damaged       | 3                 | 16.0        | 4            | 29         | 0.2   |
| Calanus marshallae C-2       | 2                 | 16.0        | 3            | 19         | 0.1   |
| Metriididae C-3              | 2                 | 16.0        | 3            | 19         | 0.1   |
| Larvacea                     | 2                 | 16.0        | 3            | 19         | 0.1   |
| Euphausiacea - calyptopis 2  | 2                 | 16.0        | 3            | 19         | 0.1   |
| Metridia pacifica - adult F  | 2                 | 16.0        | 3            | 19         | 0.1   |
| Foraminifera <5mm            | 2                 | 16.0        | 3            | 19         | 0.1   |
| Anomura - larva              | 2                 | 16.0        | 3            | 19         | 0.1   |
| Pseudocalanus spp. - adult M | 2                 | 16.0        | 3            | 19         | 0.1   |
| Metridia pacifica C-4        | 1                 | 16.0        | 1            | 10         | 0.1   |
| Calanus marshallae C-1       | 1                 | 16.0        | 1            | 10         | 0.1   |
| Euphausiacea - calyptopis 1  | 1                 | 16.0        | 1            | 10         | 0.1   |
| Calanus marshallae C-3       | 1                 | 16.0        | 1            | 10         | 0.1   |
| Calanus pacificus C-5        | 1                 | 16.0        | 1            | 10         | 0.1   |
| Eucalanus bungii C-3         | 1                 | 16.0        | 1            | 10         | 0.1   |
| Euphausiacea - furcilia      | 1                 | 16.0        | 1            | 10         | 0.1   |
| Metridia pacifica - adult M  | 1                 | 16.0        | 1            | 10         | 0.1   |
| Teleostei - larva >5mm       | 16                | 1.0         | 1            | 10         | 0.1   |
| Neocalanus plumchrus C-5     | 1                 | 16.0        | 1            | 10         | 0.1   |
| Eucalanus bungii C-2         | 1                 | 16.0        | 1            | 10         | 0.1   |
| Gymnosomata >5mm             | 3                 | 1.0         | < 1          | 2          | < 0.1 |
| Neocalanus cristatus C-5     | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Eucalanus bungii C-5 M       | 1                 | 1.0         | < 1          | 1          | < 0.1 |
| Polychaeta >5mm              | 1                 | 1.0         | < 1          | 1          | < 0.1 |
|                              |                   |             | 2018         | 14729      | 100.  |

STA. 030 57 42.7 N 155 13.9 W 27 Jul 85 11:59

DEPTH 296 SAMPLING INTERVAL 0 - 283 VOLUME FILTERED 380.2 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Pseudocalanus spp. - adult F   | 275               | 256.0       | 1852         | 52400      | 19.8 |
| Other Copepoda 2-5mm           | 83                | 256.0       | 559          | 15815      | 6.0  |
| Pseudocalanus spp. C-5 M       | 82                | 256.0       | 552          | 15625      | 5.9  |
| Acartia spp.                   | 76                | 256.0       | 512          | 14481      | 5.5  |
| Metridia pacifica - adult F    | 70                | 256.0       | 471          | 13338      | 5.0  |
| Pseudocalanus spp. - adult M   | 69                | 256.0       | 465          | 13148      | 5.0  |
| Pseudocalanus spp. C-5 F       | 63                | 256.0       | 424          | 12004      | 4.5  |
| Invertebrata - egg <5mm        | 58                | 256.0       | 391          | 11052      | 4.2  |
| Metridia pacifica C-4          | 55                | 256.0       | 370          | 10480      | 4.0  |
| Metriididae C-3                | 51                | 256.0       | 343          | 9718       | 3.7  |
| Calanus marshallae C-5         | 50                | 256.0       | 337          | 9527       | 3.6  |
| Other Copepoda <2mm            | 48                | 256.0       | 323          | 9146       | 3.5  |
| Metridia pacifica - adult M    | 45                | 256.0       | 303          | 8575       | 3.2  |
| Thecosomata <5mm               | 43                | 256.0       | 290          | 8193       | 3.1  |
| Neocalanus plumchrus - adult F | 34                | 256.0       | 229          | 6479       | 2.4  |
| Metridia pacifica C-5 M        | 33                | 256.0       | 222          | 6288       | 2.4  |
| Ostracoda <5mm                 | 23                | 256.0       | 155          | 4383       | 1.7  |
| Neocalanus plumchrus C-5       | 22                | 256.0       | 148          | 4192       | 1.6  |
| Oithona spp.                   | 21                | 256.0       | 141          | 4001       | 1.5  |
| Larvacea                       | 20                | 256.0       | 135          | 3811       | 1.4  |
| Eucalanus bungii C-5 M         | 156               | 32.0        | 131          | 3716       | 1.4  |
| Eucalanus bungii C-5 F         | 131               | 32.0        | 110          | 3120       | 1.2  |
| Metridia pacifica C-5 F        | 16                | 256.0       | 108          | 3049       | 1.2  |
| Calanus marshallae C-4         | 13                | 256.0       | 88           | 2477       | 0.9  |
| Cirripedia - nauplius <5mm     | 11                | 256.0       | 74           | 2096       | 0.8  |
| Cladocera <5mm                 | 8                 | 256.0       | 54           | 1524       | 0.6  |
| Cnidaria - medusa >5mm         | 54                | 32.0        | 45           | 1286       | 0.5  |
| Eucalanus bungii C-4 F         | 6                 | 256.0       | 40           | 1143       | 0.4  |
| Echinodermata - larva <5mm     | 6                 | 256.0       | 40           | 1143       | 0.4  |
| Calanus marshallae C-3         | 6                 | 256.0       | 40           | 1143       | 0.4  |
| Hyperiidia <5mm                | 6                 | 256.0       | 40           | 1143       | 0.4  |
| Brachyura - larva              | 4                 | 256.0       | 27           | 762        | 0.3  |
| Gymnosomata <5mm               | 3                 | 256.0       | 20           | 572        | 0.2  |
| Eucalanus bungii C-4 M         | 3                 | 256.0       | 20           | 572        | 0.2  |
| Euphausiacea - furcilia        | 3                 | 256.0       | 20           | 572        | 0.2  |
| Gammaridea <5mm                | 3                 | 256.0       | 20           | 572        | 0.2  |
| Siphonophora <5mm              | 3                 | 256.0       | 20           | 572        | 0.2  |
| Neocalanus cristatus C-5       | 22                | 32.0        | 19           | 524        | 0.2  |
| Eucalanus bungii C-3           | 2                 | 256.0       | 13           | 381        | 0.1  |
| Euphausiacea - nauplius        | 2                 | 256.0       | 13           | 381        | 0.1  |
| Anomura - larva                | 2                 | 256.0       | 13           | 381        | 0.1  |
| Calanus pacificus C-5          | 2                 | 256.0       | 13           | 381        | 0.1  |
| Pseudocalanus spp. C-4 M       | 2                 | 256.0       | 13           | 381        | 0.1  |
| Cirripedia - cypris <5mm       | 2                 | 256.0       | 13           | 381        | 0.1  |
| Cnidaria - medusa <5mm         | 2                 | 256.0       | 13           | 381        | 0.1  |
| Chaetognatha 5-20mm            | 14                | 32.0        | 12           | 333        | 0.1  |

|                              |    |       |       |        |       |
|------------------------------|----|-------|-------|--------|-------|
| Hyperiididea >5mm            | 12 | 32.0  | 10    | 286    | 0.1   |
| Thysanoessa inermis A&J      | 11 | 32.0  | 9     | 262    | 0.1   |
| Mysidacea >5mm               | 9  | 32.0  | 8     | 214    | 0.1   |
| Other Copepoda damaged       | 1  | 256.0 | 7     | 191    | 0.1   |
| Pseudocalanus spp. C-4 F     | 1  | 256.0 | 7     | 191    | 0.1   |
| Euphausiacea - calyptopis 3  | 1  | 256.0 | 7     | 191    | 0.1   |
| Calanus marshallae - adult F | 1  | 256.0 | 7     | 191    | 0.1   |
| Siphonophora >5mm            | 8  | 32.0  | 7     | 191    | 0.1   |
| Gastropoda - veliger <5mm    | 1  | 256.0 | 7     | 191    | 0.1   |
| Other zooplankton <5mm       | 1  | 256.0 | 7     | 191    | 0.1   |
| Calanus marshallae C-2       | 1  | 256.0 | 7     | 191    | 0.1   |
| Euphausiacea - calyptopis 1  | 1  | 256.0 | 7     | 191    | 0.1   |
| Eucalanus bungii - adult F   | 6  | 32.0  | 5     | 143    | 0.1   |
| Gammaridea >5mm              | 5  | 32.0  | 4     | 119    | < 0.1 |
| Eucalanus bungii - adult M   | 5  | 32.0  | 4     | 119    | < 0.1 |
| Gymnosomata >5mm             | 4  | 32.0  | 3     | 95     | < 0.1 |
| Euphausia pacifica A&J       | 2  | 32.0  | 2     | 48     | < 0.1 |
| Other Copepoda >5mm          | 1  | 32.0  | 1     | 24     | < 0.1 |
| Teleostei - larva >5mm       | 1  | 32.0  | 1     | 24     | < 0.1 |
| Chaetognatha >20mm           | 1  | 32.0  | 1     | 24     | < 0.1 |
| Polychaeta >5mm              | 1  | 32.0  | 1     | 24     | < 0.1 |
|                              |    |       | ----- | -----  | ----- |
|                              |    |       | 9355  | 264738 | 100.  |

STA. 031 57 40.6 N 155 09.5 W 28 Jul 85 1:48

DEPTH 283 SAMPLING INTERVAL 0 - 92 VOLUME FILTERED 145.5 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Thecosomata <5mm             | 119               | 128.0       | 1047         | 9632       | 15.3  |
| Acartia spp.                 | 112               | 128.0       | 985          | 9066       | 14.4  |
| Cirripedia - nauplius <5mm   | 94                | 128.0       | 827          | 7609       | 12.1  |
| Pseudocalanus spp. - adult F | 89                | 128.0       | 783          | 7204       | 11.5  |
| Echinodermata - larva <5mm   | 63                | 128.0       | 554          | 5100       | 8.1   |
| Metriididae C-3              | 48                | 128.0       | 422          | 3885       | 6.2   |
| Other Copepoda <2mm          | 35                | 128.0       | 308          | 2833       | 4.5   |
| Invertebrata - egg <5mm      | 29                | 128.0       | 255          | 2347       | 3.7   |
| Metridia pacifica C-4        | 23                | 128.0       | 202          | 1862       | 3.0   |
| Pseudocalanus spp. C-5 F     | 18                | 128.0       | 158          | 1457       | 2.3   |
| Pseudocalanus spp. - adult M | 16                | 128.0       | 141          | 1295       | 2.1   |
| Cirripedia - cypris <5mm     | 15                | 128.0       | 132          | 1214       | 1.9   |
| Hyperiididae <5mm            | 13                | 128.0       | 114          | 1052       | 1.7   |
| Oithona spp.                 | 13                | 128.0       | 114          | 1052       | 1.7   |
| Calanus marshallae C-2       | 13                | 128.0       | 114          | 1052       | 1.7   |
| Larvacea                     | 9                 | 128.0       | 79           | 729        | 1.2   |
| Calanus marshallae C-3       | 9                 | 128.0       | 79           | 729        | 1.2   |
| Cnidaria - medusa >5mm       | 489               | 2.0         | 67           | 618        | 1.0   |
| Pseudocalanus spp. C-5 M     | 7                 | 128.0       | 62           | 567        | 0.9   |
| Cnidaria - medusa <5mm       | 6                 | 128.0       | 53           | 486        | 0.8   |
| Natantia - larva             | 5                 | 128.0       | 44           | 405        | 0.6   |
| Gymnosomata <5mm             | 4                 | 128.0       | 35           | 324        | 0.5   |
| Metriididae C-2              | 4                 | 128.0       | 35           | 324        | 0.5   |
| Chaetognatha 5-20mm          | 250               | 2.0         | 34           | 316        | 0.5   |
| Polychaeta <5mm              | 3                 | 128.0       | 26           | 243        | 0.4   |
| Metridia pacifica C-5 M      | 2                 | 128.0       | 18           | 162        | 0.3   |
| Other zooplankton <5mm       | 2                 | 128.0       | 18           | 162        | 0.3   |
| Brachyura - larva            | 2                 | 128.0       | 18           | 162        | 0.3   |
| Eucalanus bungii C-5 F       | 76                | 2.0         | 10           | 96         | 0.2   |
| Chaetognatha <5mm            | 1                 | 128.0       | 9            | 81         | 0.1   |
| Anomura - larva              | 1                 | 128.0       | 9            | 81         | 0.1   |
| Other Copepoda damaged       | 1                 | 128.0       | 9            | 81         | 0.1   |
| Other Copepoda - nauplius    | 1                 | 128.0       | 9            | 81         | 0.1   |
| Euphausiacea - furcilia      | 1                 | 128.0       | 9            | 81         | 0.1   |
| Euphausiacea - calyptopis 2  | 1                 | 128.0       | 9            | 81         | 0.1   |
| Calanus marshallae C-4       | 1                 | 128.0       | 9            | 81         | 0.1   |
| Eucalanus bungii C-3         | 1                 | 128.0       | 9            | 81         | 0.1   |
| Cladocera <5mm               | 1                 | 128.0       | 9            | 81         | 0.1   |
| Eucalanus bungii C-5 M       | 33                | 2.0         | 5            | 42         | 0.1   |
| Teleostei - larva >5mm       | 18                | 2.0         | 2            | 23         | < 0.1 |
| Ctenophora >5mm              | 1                 | 2.0         | < 1          | 1          | < 0.1 |
| Polychaeta >5mm              | 1                 | 2.0         | < 1          | 1          | < 0.1 |
| Thysanoessa inermis A&J      | 1                 | 2.0         | < 1          | 1          | < 0.1 |
| Thysanoessa spinifera A&J    | 1                 | 2.0         | < 1          | 1          | < 0.1 |
| Thysanoessa longipes A&J     | 1                 | 2.0         | < 1          | 1          | < 0.1 |

|       |       |       |
|-------|-------|-------|
| ----- | ----- | ----- |
| 6824  | 62781 | 100.  |

STA. 033 57 35.1 N 154 59.5 W 28 Jul 85 4:19

DEPTH 232 SAMPLING INTERVAL 0 - 199 VOLUME FILTERED 459.4 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Pseudocalanus spp. - adult F   | 268               | 256.0       | 1494         | 29721      | 21.5 |
| Thecosomata <5mm               | 235               | 256.0       | 1310         | 26061      | 18.9 |
| Metridia pacifica - adult F    | 91                | 256.0       | 507          | 10092      | 7.3  |
| Metridia pacifica C-4          | 85                | 256.0       | 474          | 9426       | 6.8  |
| Metriididae C-3                | 56                | 256.0       | 312          | 6210       | 4.5  |
| Pseudocalanus spp. - adult M   | 52                | 256.0       | 290          | 5767       | 4.2  |
| Metridia pacifica C-5 M        | 42                | 256.0       | 234          | 4658       | 3.4  |
| Acartia spp.                   | 33                | 256.0       | 184          | 3660       | 2.6  |
| Metridia pacifica C-5 F        | 30                | 256.0       | 167          | 3327       | 2.4  |
| Other Copepoda <2mm            | 29                | 256.0       | 162          | 3216       | 2.3  |
| Metridia pacifica - adult M    | 27                | 256.0       | 150          | 2994       | 2.2  |
| Eucalanus bungii C-5 F         | 210               | 32.0        | 146          | 2911       | 2.1  |
| Neocalanus plumchrus C-5       | 25                | 256.0       | 139          | 2772       | 2.0  |
| Pseudocalanus spp. C-5 F       | 21                | 256.0       | 117          | 2329       | 1.7  |
| Eucalanus bungii C-5 M         | 162               | 32.0        | 113          | 2246       | 1.6  |
| Pseudocalanus spp. C-5 M       | 19                | 256.0       | 106          | 2107       | 1.5  |
| Oithona spp.                   | 19                | 256.0       | 106          | 2107       | 1.5  |
| Calanus marshallae C-4         | 16                | 256.0       | 89           | 1774       | 1.3  |
| Cirripedia - cypris <5mm       | 12                | 256.0       | 67           | 1331       | 1.0  |
| Calanus marshallae C-5         | 11                | 256.0       | 61           | 1220       | 0.9  |
| Other Copepoda 2-5mm           | 8                 | 256.0       | 45           | 887        | 0.6  |
| Neocalanus plumchrus - adult F | 8                 | 256.0       | 45           | 887        | 0.6  |
| Cnidaria - medusa >5mm         | 64                | 32.0        | 45           | 887        | 0.6  |
| Hyperiididae <5mm              | 8                 | 256.0       | 45           | 887        | 0.6  |
| Echinodermata - larva <5mm     | 7                 | 256.0       | 39           | 776        | 0.6  |
| Gymnosomata <5mm               | 7                 | 256.0       | 39           | 776        | 0.6  |
| Calanus marshallae C-3         | 7                 | 256.0       | 39           | 776        | 0.6  |
| Ostracoda <5mm                 | 7                 | 256.0       | 39           | 776        | 0.6  |
| Cnidaria - medusa <5mm         | 7                 | 256.0       | 39           | 776        | 0.6  |
| Other Copepoda damaged         | 5                 | 256.0       | 28           | 554        | 0.4  |
| Calanus marshallae - adult F   | 5                 | 256.0       | 28           | 554        | 0.4  |
| Eucalanus bungii C-4 F         | 5                 | 256.0       | 28           | 554        | 0.4  |
| Eucalanus bungii C-4 M         | 4                 | 256.0       | 22           | 444        | 0.3  |
| Cirripedia - nauplius <5mm     | 4                 | 256.0       | 22           | 444        | 0.3  |
| Euphausiacea - furcilia        | 4                 | 256.0       | 22           | 444        | 0.3  |
| Chaetognatha 5-20mm            | 25                | 32.0        | 17           | 347        | 0.3  |
| Larvacea                       | 3                 | 256.0       | 17           | 333        | 0.2  |
| Chaetognatha <5mm              | 3                 | 256.0       | 17           | 333        | 0.2  |
| Polychaeta <5mm                | 3                 | 256.0       | 17           | 333        | 0.2  |
| Natantia - larva               | 2                 | 256.0       | 11           | 222        | 0.2  |
| Pseudocalanus spp. C-4 M       | 2                 | 256.0       | 11           | 222        | 0.2  |
| Metriididae C-2                | 2                 | 256.0       | 11           | 222        | 0.2  |
| Thysanoessa inermis A&J        | 11                | 32.0        | 8            | 152        | 0.1  |
| Eucalanus bungii - adult F     | 10                | 32.0        | 7            | 139        | 0.1  |
| Invertebrata - egg <5mm        | 1                 | 256.0       | 6            | 111        | 0.1  |
| Euphausiacea - calyptopis 1    | 1                 | 256.0       | 6            | 111        | 0.1  |

|                                |   |       |       |        |       |
|--------------------------------|---|-------|-------|--------|-------|
| Neocalanus plumchrus - adult M | 1 | 256.0 | 6     | 111    | 0.1   |
| Brachyura - larva              | 1 | 256.0 | 6     | 111    | 0.1   |
| Other Copepoda - nauplius      | 1 | 256.0 | 6     | 111    | 0.1   |
| Euphausiacea - nauplius        | 1 | 256.0 | 6     | 111    | 0.1   |
| Invertebrata <5mm              | 1 | 256.0 | 6     | 111    | 0.1   |
| Siphonophora <5mm              | 1 | 256.0 | 6     | 111    | 0.1   |
| Foraminifera <5mm              | 1 | 256.0 | 6     | 111    | 0.1   |
| Mysidacea >5mm                 | 7 | 32.0  | 5     | 97     | 0.1   |
| Neocalanus cristatus C-5       | 6 | 32.0  | 4     | 83     | 0.1   |
| Chaetognatha >20mm             | 5 | 32.0  | 3     | 69     | 0.1   |
| Hyperiididea >5mm              | 5 | 32.0  | 3     | 69     | 0.1   |
| Gymnosomata >5mm               | 4 | 32.0  | 3     | 55     | < 0.1 |
| Gammaridea >5mm                | 2 | 32.0  | 1     | 28     | < 0.1 |
| Eucalanus bungii - adult M     | 1 | 32.0  | 1     | 14     | < 0.1 |
| Euphausia pacifica A&J         | 1 | 32.0  | 1     | 14     | < 0.1 |
| Other Copepoda >5mm            | 1 | 32.0  | 1     | 14     | < 0.1 |
| Polychaeta >5mm                | 1 | 32.0  | 1     | 14     | < 0.1 |
| Thysanoessa spinifera A&J      | 1 | 32.0  | 1     | 14     | < 0.1 |
|                                |   |       | ----- | -----  | ----- |
|                                |   |       | 6941  | 138123 | 100.  |



STA. 034 57 33.3 N 154 51.7 W 28 Jul 85 5:54

DEPTH 230 SAMPLING INTERVAL 0 - 99 VOLUME FILTERED 159.7 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Thecosomata <5mm             | 252               | 512.0       | 8080         | 79996      | 53.6  |
| Pseudocalanus spp. - adult F | 75                | 512.0       | 2405         | 23808      | 16.0  |
| Metridia pacifica C-4        | 15                | 512.0       | 481          | 4762       | 3.2   |
| Hyperiididae <5mm            | 13                | 512.0       | 417          | 4127       | 2.8   |
| Pseudocalanus spp. - adult M | 12                | 512.0       | 385          | 3809       | 2.6   |
| Metridia pacifica C-5 M      | 9                 | 512.0       | 289          | 2857       | 1.9   |
| Cirripedia - cypris <5mm     | 9                 | 512.0       | 289          | 2857       | 1.9   |
| Metridiidae C-3              | 6                 | 512.0       | 192          | 1905       | 1.3   |
| Metridia pacifica C-5 F      | 6                 | 512.0       | 192          | 1905       | 1.3   |
| Acartia spp.                 | 6                 | 512.0       | 192          | 1905       | 1.3   |
| Other Copepoda <2mm          | 6                 | 512.0       | 192          | 1905       | 1.3   |
| Pseudocalanus spp. C-5 F     | 5                 | 512.0       | 160          | 1587       | 1.1   |
| Oithona spp.                 | 5                 | 512.0       | 160          | 1587       | 1.1   |
| Cnidaria - medusa >5mm       | 518               | 4.0         | 130          | 1285       | 0.9   |
| Echinodermata - larva <5mm   | 4                 | 512.0       | 128          | 1270       | 0.9   |
| Cnidaria - medusa <5mm       | 4                 | 512.0       | 128          | 1270       | 0.9   |
| Brachyura - larva            | 4                 | 512.0       | 128          | 1270       | 0.9   |
| Calanus marshallae C-4       | 4                 | 512.0       | 128          | 1270       | 0.9   |
| Larvacea                     | 4                 | 512.0       | 128          | 1270       | 0.9   |
| Other Copepoda damaged       | 3                 | 512.0       | 96           | 952        | 0.6   |
| Euphausiacea - furcilia      | 3                 | 512.0       | 96           | 952        | 0.6   |
| Pseudocalanus spp. C-5 M     | 3                 | 512.0       | 96           | 952        | 0.6   |
| Calanus marshallae - adult M | 2                 | 512.0       | 64           | 635        | 0.4   |
| Foraminifera <5mm            | 2                 | 512.0       | 64           | 635        | 0.4   |
| Eucalanus bungii C-5 F       | 190               | 4.0         | 48           | 471        | 0.3   |
| Chaetognatha 5-20mm          | 132               | 4.0         | 33           | 327        | 0.2   |
| Eucalanus bungii C-4 F       | 1                 | 512.0       | 32           | 317        | 0.2   |
| Eucalanus bungii C-4 M       | 1                 | 512.0       | 32           | 317        | 0.2   |
| Calanus marshallae C-3       | 1                 | 512.0       | 32           | 317        | 0.2   |
| Pseudocalanus spp. C-4 F     | 1                 | 512.0       | 32           | 317        | 0.2   |
| Pseudocalanus spp. C-4 M     | 1                 | 512.0       | 32           | 317        | 0.2   |
| Metridia pacifica - adult F  | 1                 | 512.0       | 32           | 317        | 0.2   |
| Calanus marshallae C-5       | 1                 | 512.0       | 32           | 317        | 0.2   |
| Gymnosomata <5mm             | 1                 | 512.0       | 32           | 317        | 0.2   |
| Neocalanus plumchrus C-5     | 1                 | 512.0       | 32           | 317        | 0.2   |
| Polychaeta >5mm              | 1                 | 512.0       | 32           | 317        | 0.2   |
| Eucalanus bungii C-5 M       | 115               | 4.0         | 29           | 285        | 0.2   |
| Eucalanus bungii - adult F   | 14                | 4.0         | 4            | 35         | < 0.1 |
| Thysanoessa inermis A&J      | 9                 | 4.0         | 2            | 22         | < 0.1 |
| Gymnosomata >5mm             | 8                 | 4.0         | 2            | 20         | < 0.1 |
| Euphausia pacifica A&J       | 7                 | 4.0         | 2            | 17         | < 0.1 |
| Chaetognatha >20mm           | 7                 | 4.0         | 2            | 17         | < 0.1 |
| Teleostei - larva >5mm       | 4                 | 4.0         | 1            | 10         | < 0.1 |
| Thysanoessa spinifera A&J    | 3                 | 4.0         | 1            | 7          | < 0.1 |
| Neocalanus cristatus C-5     | 2                 | 4.0         | 1            | 5          | < 0.1 |
| Siphonophora >5mm            | 2                 | 4.0         | 1            | 5          | < 0.1 |

|                            |   |       |     |        |       |
|----------------------------|---|-------|-----|--------|-------|
| Thysanoessa inspinata A&J  | 1 | 4.0   | < 1 | 2      | < 0.1 |
| Thysanoessa longipes A&J   | 1 | 4.0   | < 1 | 2      | < 0.1 |
| Thecosomata >5mm           | 1 | 4.0   | < 1 | 2      | < 0.1 |
| Invertebrata >5mm          | 1 | 4.0   | < 1 | 2      | < 0.1 |
| Eucalanus bungii - adult M | 1 | 4.0   | < 1 | 2      | < 0.1 |
|                            |   | ----- |     | -----  | ----- |
|                            |   | 15069 |     | 149180 | 100.  |

STA. 035 57 30.7 N 154 46.3 W 28 Jul 85 7:32

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH  
207 0 - 197 283.7 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Pseudocalanus spp. - adult F   | 25                | 512.0       | 451          | 8888       | 10.1 |
| Thecosomata <5mm               | 40                | 256.0       | 361          | 7110       | 8.1  |
| Metridia pacifica C-4          | 38                | 256.0       | 343          | 6755       | 7.7  |
| Metriididae C-3                | 35                | 256.0       | 316          | 6221       | 7.1  |
| Metridia pacifica - adult F    | 17                | 512.0       | 307          | 6044       | 6.9  |
| Metridia pacifica C-5 M        | 15                | 512.0       | 271          | 5333       | 6.1  |
| Metridia pacifica C-5 F        | 15                | 512.0       | 271          | 5333       | 6.1  |
| Neocalanus plumchrus C-5       | 24                | 256.0       | 217          | 4266       | 4.8  |
| Metridia pacifica - adult M    | 12                | 512.0       | 217          | 4266       | 4.8  |
| Oithona spp.                   | 15                | 256.0       | 135          | 2666       | 3.0  |
| Other Copepoda <2mm            | 15                | 256.0       | 135          | 2666       | 3.0  |
| Pseudocalanus spp. - adult M   | 7                 | 512.0       | 126          | 2489       | 2.8  |
| Eucalanus bungii C-5 F         | 53                | 64.0        | 120          | 2355       | 2.7  |
| Neocalanus plumchrus - adult F | 13                | 256.0       | 117          | 2311       | 2.6  |
| Pseudocalanus spp. C-5 M       | 12                | 256.0       | 108          | 2133       | 2.4  |
| Cnidaria - medusa >5mm         | 41                | 64.0        | 92           | 1822       | 2.1  |
| Other Copepoda damaged         | 9                 | 256.0       | 81           | 1600       | 1.8  |
| Eucalanus bungii C-5 M         | 35                | 64.0        | 79           | 1555       | 1.8  |
| Acartia spp.                   | 7                 | 256.0       | 63           | 1244       | 1.4  |
| Calanus marshallae C-5         | 7                 | 256.0       | 63           | 1244       | 1.4  |
| Other Copepoda 2-5mm           | 6                 | 256.0       | 54           | 1067       | 1.2  |
| Euphausiacea - furcilia        | 6                 | 256.0       | 54           | 1067       | 1.2  |
| Pseudocalanus spp. C-5 F       | 6                 | 256.0       | 54           | 1067       | 1.2  |
| Cirripedia - nauplius <5mm     | 5                 | 256.0       | 45           | 889        | 1.0  |
| Chaetognatha 5-20mm            | 17                | 64.0        | 38           | 755        | 0.9  |
| Cnidaria - medusa <5mm         | 4                 | 256.0       | 36           | 711        | 0.8  |
| Hyperiididae <5mm              | 3                 | 256.0       | 27           | 533        | 0.6  |
| Larvacea                       | 3                 | 256.0       | 27           | 533        | 0.6  |
| Eucalanus bungii C-4 M         | 3                 | 256.0       | 27           | 533        | 0.6  |
| Eucalanus bungii C-4 F         | 3                 | 256.0       | 27           | 533        | 0.6  |
| Thysanoessa inermis A&J        | 10                | 64.0        | 23           | 444        | 0.5  |
| Euphausia pacifica A&J         | 10                | 64.0        | 23           | 444        | 0.5  |
| Calanus marshallae - adult F   | 2                 | 256.0       | 18           | 356        | 0.4  |
| Calanus marshallae C-4         | 2                 | 256.0       | 18           | 356        | 0.4  |
| Gymnosomata <5mm               | 2                 | 256.0       | 18           | 356        | 0.4  |
| Chaetognatha >20mm             | 8                 | 64.0        | 18           | 356        | 0.4  |
| Siphonophora <5mm              | 1                 | 256.0       | 9            | 178        | 0.2  |
| Calanus marshallae - adult M   | 1                 | 256.0       | 9            | 178        | 0.2  |
| Eucalanus bungii C-3           | 1                 | 256.0       | 9            | 178        | 0.2  |
| Chaetognatha <5mm              | 1                 | 256.0       | 9            | 178        | 0.2  |
| Bivalvia <5mm                  | 1                 | 256.0       | 9            | 178        | 0.2  |
| Echinodermata - larva <5mm     | 1                 | 256.0       | 9            | 178        | 0.2  |
| Eucalanus bungii C-2           | 1                 | 256.0       | 9            | 178        | 0.2  |
| Eucalanus bungii - adult F     | 3                 | 64.0        | 7            | 133        | 0.2  |
| Natantia A&J >5mm              | 3                 | 64.0        | 7            | 133        | 0.2  |
| Mysidacea >5mm                 | 3                 | 64.0        | 7            | 133        | 0.2  |

|                           |   |       |   |       |       |
|---------------------------|---|-------|---|-------|-------|
| Thysanoessa spinifera A&J | 1 | 64.0  | 2 | 44    | 0.1   |
| Hyperiidea >5mm           | 1 | 64.0  | 2 | 44    | 0.1   |
|                           |   | ----- |   | ----- | ----- |
|                           |   | 4469  |   | 88032 | 100.  |

Appendix 5. Abundance of zooplankton taxa at each station sampled during FOX86-I, cruise 3MF85 in Shelikof Strait, 16-25 October 1985.

STA. 154 55 55.5 N 156 15.0 W 16 Oct 85 20:08

DEPTH 234 SAMPLING INTERVAL 0 - 180 VOLUME FILTERED 385.2 NET MESH 333

| Taxon                        | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. - adult F | 94                | 256.0       | 625          | 11245      | 23.8  |
| Metridia pacifica C-4        | 43                | 256.0       | 286          | 5144       | 10.9  |
| Metridia pacifica C-5 M      | 41                | 256.0       | 272          | 4905       | 10.4  |
| Metridia pacifica C-5 F      | 38                | 256.0       | 253          | 4546       | 9.6   |
| Acartia spp.                 | 36                | 256.0       | 239          | 4307       | 9.1   |
| Other Copepoda <2mm          | 23                | 256.0       | 153          | 2751       | 5.8   |
| Metridia pacifica - adult F  | 52                | 85.3        | 115          | 2073       | 4.4   |
| Oithona spp.                 | 49                | 85.3        | 109          | 1953       | 4.1   |
| Metriididae C-3              | 20                | 85.3        | 44           | 797        | 1.7   |
| Pseudocalanus spp. C-5 F     | 20                | 85.3        | 44           | 797        | 1.7   |
| Pseudocalanus spp. C-5 M     | 19                | 85.3        | 42           | 757        | 1.6   |
| Pseudocalanus spp. - adult M | 6                 | 256.0       | 40           | 718        | 1.5   |
| Thecosomata <5mm             | 37                | 36.6        | 35           | 633        | 1.3   |
| Calanus marshallae C-5       | 32                | 36.6        | 30           | 547        | 1.2   |
| Larvacea                     | 30                | 36.6        | 29           | 513        | 1.1   |
| Other Copepoda 2-5mm         | 4                 | 256.0       | 27           | 479        | 1.0   |
| Metridia pacifica - adult M  | 11                | 85.3        | 24           | 438        | 0.9   |
| Chaetognatha 5-20mm          | 54                | 16.0        | 22           | 404        | 0.9   |
| Eucalanus bungii C-5 F       | 52                | 16.0        | 22           | 389        | 0.8   |
| Calanus marshallae C-4       | 22                | 36.6        | 21           | 376        | 0.8   |
| Calanus marshallae C-3       | 22                | 36.6        | 21           | 376        | 0.8   |
| Eucalanus bungii C-5 M       | 50                | 16.0        | 21           | 374        | 0.8   |
| Cnidaria - medusa <5mm       | 16                | 36.6        | 15           | 274        | 0.6   |
| Hyperiididae <5mm            | 14                | 36.6        | 13           | 239        | 0.5   |
| Ostracoda <5mm               | 13                | 36.6        | 12           | 222        | 0.5   |
| Eucalanus bungii C-4 M       | 13                | 36.6        | 12           | 222        | 0.5   |
| Eucalanus bungii C-4 F       | 12                | 36.6        | 11           | 205        | 0.4   |
| Calanus marshallae C-2       | 11                | 36.6        | 10           | 188        | 0.4   |
| Cnidaria - medusa >5mm       | 24                | 16.0        | 10           | 179        | 0.4   |
| Eucalanus bungii C-3         | 8                 | 36.6        | 8            | 137        | 0.3   |
| Euphausiacea - furcilia      | 8                 | 36.6        | 8            | 137        | 0.3   |
| Euphausia pacifica A&J       | 14                | 16.0        | 6            | 105        | 0.2   |
| Eucalanus bungii - adult F   | 12                | 16.0        | 5            | 90         | 0.2   |
| Pseudocalanus spp. C-4 F     | 4                 | 36.6        | 4            | 68         | 0.1   |
| Neocalanus plumchrus C-5     | 4                 | 36.6        | 4            | 68         | 0.1   |
| Gymnosomata <5mm             | 3                 | 36.6        | 3            | 51         | 0.1   |
| Pseudocalanus spp. C-4 M     | 3                 | 36.6        | 3            | 51         | 0.1   |
| Eucalanus bungii C-2         | 3                 | 36.6        | 3            | 51         | 0.1   |
| Brachyura - larva            | 3                 | 36.6        | 3            | 51         | 0.1   |
| Neocalanus cristatus C-4     | 5                 | 16.0        | 2            | 37         | 0.1   |
| Calanus pacificus C-5        | 2                 | 36.6        | 2            | 34         | 0.1   |
| Siphonophora >5mm            | 4                 | 16.0        | 2            | 30         | 0.1   |
| Polychaeta >5mm              | 3                 | 16.0        | 1            | 22         | < 0.1 |
| Siphonophora <5mm            | 1                 | 36.6        | 1            | 17         | < 0.1 |
| Gastropoda - veliger <5mm    | 1                 | 36.6        | 1            | 17         | < 0.1 |
| Natantia - larva             | 1                 | 36.6        | 1            | 17         | < 0.1 |

|                              |   |       |       |       |       |
|------------------------------|---|-------|-------|-------|-------|
| Euphausiacea - nauplius      | 1 | 36.6  | 1     | 17    | < 0.1 |
| Polychaeta <5mm              | 1 | 36.6  | 1     | 17    | < 0.1 |
| Bryozoa - cyphonautes <5mm   | 1 | 36.6  | 1     | 17    | < 0.1 |
| Calanus marshallae - adult F | 1 | 36.6  | 1     | 17    | < 0.1 |
| Cirripedia - cypris <5mm     | 1 | 36.6  | 1     | 17    | < 0.1 |
| Chaetognatha >20mm           | 2 | 16.0  | 1     | 15    | < 0.1 |
| Thysanoessa spinifera A&J    | 2 | 16.0  | 1     | 15    | < 0.1 |
| Hyperiidia >5mm              | 2 | 16.0  | 1     | 15    | < 0.1 |
| Neocalanus cristatus C-5     | 2 | 16.0  | 1     | 15    | < 0.1 |
| Eucalanus bungii - adult M   | 1 | 16.0  | < 1   | 7     | < 0.1 |
| Gammaridea >5mm              | 1 | 16.0  | < 1   | 7     | < 0.1 |
| Thysanoessa longipes A&J     | 1 | 16.0  | < 1   | 7     | < 0.1 |
|                              |   | ----- | ----- | ----- |       |
|                              |   | 2623  | 47207 | 100.  |       |

STA. 061 55 43.2 N 155 15.5 W 21 Oct 85 2:21

DEPTH 196 SAMPLING INTERVAL 0 - 208 VOLUME FILTERED 242.7 NET MESH 333

| Taxon                           | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|---------------------------------|-------------------|-------------|--------------|------------|------|
| Pseudocalanus spp. - adult F    | 64                | 256.0       | 675          | 14039      | 11.3 |
| Metridia pacifica - adult F     | 54                | 256.0       | 569          | 11845      | 9.5  |
| Metridia pacifica C-5 F         | 46                | 256.0       | 485          | 10091      | 8.1  |
| Pseudocalanus spp. C-5 F        | 46                | 256.0       | 485          | 10091      | 8.1  |
| Acartia spp.                    | 44                | 256.0       | 464          | 9652       | 7.8  |
| Pseudocalanus spp. C-5 M        | 42                | 256.0       | 443          | 9213       | 7.4  |
| Metridia pacifica C-5 M         | 40                | 256.0       | 422          | 8774       | 7.1  |
| Euphausiacea - furcilia         | 36                | 256.0       | 380          | 7897       | 6.4  |
| Other Copepoda <2mm             | 33                | 256.0       | 348          | 7239       | 5.8  |
| Other Copepoda 2-5mm            | 19                | 256.0       | 200          | 4168       | 3.4  |
| Oithona spp.                    | 14                | 256.0       | 148          | 3071       | 2.5  |
| Metriididae C-3                 | 14                | 256.0       | 148          | 3071       | 2.5  |
| Larvacea                        | 13                | 256.0       | 137          | 2852       | 2.3  |
| Hyperiididae <5mm               | 11                | 256.0       | 116          | 2413       | 1.9  |
| Ostracoda <5mm                  | 9                 | 256.0       | 95           | 1974       | 1.6  |
| Calanus marshallae C-5          | 9                 | 256.0       | 95           | 1974       | 1.6  |
| Neocalanus plumchirus C-5       | 8                 | 256.0       | 84           | 1755       | 1.4  |
| Metridia pacifica C-4           | 8                 | 256.0       | 84           | 1755       | 1.4  |
| Euphausiacea - calyptopis 3     | 8                 | 256.0       | 84           | 1755       | 1.4  |
| Neocalanus plumchirus - adult F | 5                 | 256.0       | 53           | 1097       | 0.9  |
| Gastropoda <5mm                 | 3                 | 256.0       | 32           | 658        | 0.5  |
| Other Copepoda damaged          | 3                 | 256.0       | 32           | 658        | 0.5  |
| Cnidaria - medusa <5mm          | 3                 | 256.0       | 32           | 658        | 0.5  |
| Other Copepoda - nauplius       | 2                 | 256.0       | 21           | 439        | 0.4  |
| Eucalanus bungii C-1            | 2                 | 256.0       | 21           | 439        | 0.4  |
| Pseudocalanus spp. C-4 F        | 2                 | 256.0       | 21           | 439        | 0.4  |
| Echinodermata - larva <5mm      | 2                 | 256.0       | 21           | 439        | 0.4  |
| Calanus pacificus C-4           | 2                 | 256.0       | 21           | 439        | 0.4  |
| Calanus marshallae C-2          | 2                 | 256.0       | 21           | 439        | 0.4  |
| Cirripedia - nauplius <5mm      | 2                 | 256.0       | 21           | 439        | 0.4  |
| Eucalanus bungii C-5 F          | 30                | 16.0        | 20           | 411        | 0.3  |
| Mysidacea <5mm                  | 1                 | 256.0       | 11           | 219        | 0.2  |
| Foraminifera <5mm               | 1                 | 256.0       | 11           | 219        | 0.2  |
| Pseudocalanus spp. - adult M    | 1                 | 256.0       | 11           | 219        | 0.2  |
| Eucalanus bungii C-2            | 1                 | 256.0       | 11           | 219        | 0.2  |
| Calanus marshallae C-3          | 1                 | 256.0       | 11           | 219        | 0.2  |
| Euphausiacea - calyptopis 1     | 1                 | 256.0       | 11           | 219        | 0.2  |
| Calanus marshallae C-4          | 1                 | 256.0       | 11           | 219        | 0.2  |
| Calanus marshallae C-1          | 1                 | 256.0       | 11           | 219        | 0.2  |
| Other zooplankton <5mm          | 1                 | 256.0       | 11           | 219        | 0.2  |
| Cirripedia - cypris <5mm        | 1                 | 256.0       | 11           | 219        | 0.2  |
| Euphausiacea - calyptopis 2     | 1                 | 256.0       | 11           | 219        | 0.2  |
| Eucalanus bungii C-4 F          | 1                 | 256.0       | 11           | 219        | 0.2  |
| Invertebrata - egg <5mm         | 1                 | 256.0       | 11           | 219        | 0.2  |
| Eucalanus bungii C-5 M          | 15                | 16.0        | 10           | 206        | 0.2  |
| Neocalanus cristatus C-5        | 26                | 8.0         | 9            | 178        | 0.1  |



|                            |    |      |       |        |       |
|----------------------------|----|------|-------|--------|-------|
| Chaetognatha 5-20mm        | 23 | 8.0  | 8     | 158    | 0.1   |
| Chaetognatha >20mm         | 22 | 8.0  | 7     | 151    | 0.1   |
| Other Copepoda >5mm        | 20 | 8.0  | 7     | 137    | 0.1   |
| Hyperiididea >5mm          | 17 | 8.0  | 6     | 117    | 0.1   |
| Cnidaria - medusa >5mm     | 14 | 8.0  | 5     | 96     | 0.1   |
| Gammaridea >5mm            | 9  | 8.0  | 3     | 62     | < 0.1 |
| Eucalanus bungii - adult F | 4  | 16.0 | 3     | 55     | < 0.1 |
| Mysidacea >5mm             | 6  | 8.0  | 2     | 41     | < 0.1 |
| Natantia A&J >5mm          | 5  | 8.0  | 2     | 34     | < 0.1 |
| Gymnosomata >5mm           | 2  | 8.0  | 1     | 14     | < 0.1 |
| Polychaeta >5mm            | 2  | 8.0  | 1     | 14     | < 0.1 |
| Teleostei - larva >5mm     | 2  | 8.0  | 1     | 14     | < 0.1 |
| Thysanoessa spinifera A&J  | 2  | 8.0  | 1     | 14     | < 0.1 |
| Cumacea >5mm               | 1  | 8.0  | < 1   | 7      | < 0.1 |
| Thysanoessa inermis A&J    | 1  | 8.0  | < 1   | 7      | < 0.1 |
|                            |    |      | ----- | -----  | ----- |
|                            |    |      | 5978  | 124336 | 100.  |

STA. 058 57 36.3 N 155 00.2 W 21 Oct 85 3:37

DEPTH SAMPLING INTERVAL VOLUME FILTERED NET MESH  
237 0 - 225 293.1 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Metridia pacifica C-5 M        | 74                | 512.0       | 1293         | 29089      | 20.7 |
| Metridia pacifica C-5 F        | 65                | 512.0       | 1136         | 25551      | 18.2 |
| Pseudocalanus spp. - adult F   | 43                | 512.0       | 751          | 16903      | 12.0 |
| Pseudocalanus spp. C-5 F       | 27                | 512.0       | 472          | 10614      | 7.6  |
| Metridia pacifica - adult F    | 24                | 512.0       | 419          | 9434       | 6.7  |
| Other Copepoda <2mm            | 20                | 512.0       | 349          | 7862       | 5.6  |
| Pseudocalanus spp. C-5 M       | 18                | 512.0       | 314          | 7076       | 5.0  |
| Metridia pacifica C-4          | 44                | 102.4       | 154          | 3459       | 2.5  |
| Oithona spp.                   | 42                | 102.4       | 147          | 3302       | 2.3  |
| Acartia spp.                   | 41                | 102.4       | 143          | 3223       | 2.3  |
| Other Copepoda 2-5mm           | 7                 | 512.0       | 122          | 2752       | 2.0  |
| Calanus marshallae C-5         | 29                | 102.4       | 101          | 2280       | 1.6  |
| Metriididae C-3                | 25                | 102.4       | 87           | 1965       | 1.4  |
| Euphausiacea - furcilia        | 25                | 102.4       | 87           | 1965       | 1.4  |
| Other Copepoda damaged         | 5                 | 512.0       | 87           | 1965       | 1.4  |
| Ostracoda <5mm                 | 24                | 102.4       | 84           | 1887       | 1.3  |
| Metridia pacifica - adult M    | 4                 | 512.0       | 70           | 1572       | 1.1  |
| Hyperiididae <5mm              | 14                | 102.4       | 49           | 1101       | 0.8  |
| Larvacea                       | 13                | 102.4       | 45           | 1022       | 0.7  |
| Neocalanus plumchrus - adult F | 13                | 102.4       | 45           | 1022       | 0.7  |
| Neocalanus plumchrus C-5       | 9                 | 102.4       | 31           | 708        | 0.5  |
| Eucalanus bungii C-5 F         | 35                | 16.0        | 19           | 430        | 0.3  |
| Thysanoessa inermis A&J        | 33                | 16.0        | 18           | 405        | 0.3  |
| Pseudocalanus spp. - adult M   | 1                 | 512.0       | 17           | 393        | 0.3  |
| Calanus marshallae C-4         | 3                 | 102.4       | 10           | 236        | 0.2  |
| Eucalanus bungii C-4 M         | 3                 | 102.4       | 10           | 236        | 0.2  |
| Eucalanus bungii C-4 F         | 3                 | 102.4       | 10           | 236        | 0.2  |
| Euphausiacea - calyptopis 3    | 3                 | 102.4       | 10           | 236        | 0.2  |
| Eucalanus bungii C-3           | 3                 | 102.4       | 10           | 236        | 0.2  |
| Chaetognatha >20mm             | 17                | 16.0        | 9            | 209        | 0.1  |
| Chaetognatha 5-20mm            | 17                | 16.0        | 9            | 209        | 0.1  |
| Hyperiididae >5mm              | 13                | 16.0        | 7            | 160        | 0.1  |
| Euphausiacea - calyptopis 2    | 2                 | 102.4       | 7            | 157        | 0.1  |
| Gammaridea <5mm                | 2                 | 102.4       | 7            | 157        | 0.1  |
| Mysidacea <5mm                 | 2                 | 102.4       | 7            | 157        | 0.1  |
| Thecosomata <5mm               | 2                 | 102.4       | 7            | 157        | 0.1  |
| Gymnosomata <5mm               | 2                 | 102.4       | 7            | 157        | 0.1  |
| Siphonophora <5mm              | 2                 | 102.4       | 7            | 157        | 0.1  |
| Cnidaria - medusa >5mm         | 12                | 16.0        | 7            | 147        | 0.1  |
| Mysidacea >5mm                 | 9                 | 16.0        | 5            | 111        | 0.1  |
| Gammaridea >5mm                | 8                 | 16.0        | 4            | 98         | 0.1  |
| Eucalanus bungii C-5 M         | 8                 | 16.0        | 4            | 98         | 0.1  |
| Euphausia pacifica A&J         | 8                 | 16.0        | 4            | 98         | 0.1  |
| Other Copepoda - nauplius      | 1                 | 102.4       | 3            | 79         | 0.1  |
| Cnidaria - medusa <5mm         | 1                 | 102.4       | 3            | 79         | 0.1  |
| Eucalanus bungii C-2           | 1                 | 102.4       | 3            | 79         | 0.1  |

|                                |   |       |       |        |       |
|--------------------------------|---|-------|-------|--------|-------|
| Cirripedia - cypris <5mm       | 1 | 102.4 | 3     | 79     | 0.1   |
| Neocalanus plumchrus - adult M | 1 | 102.4 | 3     | 79     | 0.1   |
| Calanus marshallae - adult F   | 1 | 102.4 | 3     | 79     | 0.1   |
| Unidentified Calanoida C-3     | 1 | 102.4 | 3     | 79     | 0.1   |
| Echinodermata - larva <5mm     | 1 | 102.4 | 3     | 79     | 0.1   |
| Bryozoa - cyphonautes <5mm     | 1 | 102.4 | 3     | 79     | 0.1   |
| Cirripedia - nauplius <5mm     | 1 | 102.4 | 3     | 79     | 0.1   |
| Eucalanus bungii C-1           | 1 | 102.4 | 3     | 79     | 0.1   |
| Metriididae C-2                | 1 | 102.4 | 3     | 79     | 0.1   |
| Euphausiacea - calyptopis 1    | 1 | 102.4 | 3     | 79     | 0.1   |
| Gymnosomata >5mm               | 6 | 16.0  | 3     | 74     | 0.1   |
| Neocalanus cristatus C-5       | 6 | 16.0  | 3     | 74     | 0.1   |
| Eucalanus bungii - adult F     | 5 | 16.0  | 3     | 61     | < 0.1 |
| Other Copepoda >5mm            | 3 | 16.0  | 2     | 37     | < 0.1 |
| Euphausiacea A&J damaged       | 1 | 16.0  | 1     | 12     | < 0.1 |
| Polychaeta >5mm                | 1 | 16.0  | 1     | 12     | < 0.1 |
| Siphonophora >5mm              | 1 | 16.0  | 1     | 12     | < 0.1 |
| Cumacea >5mm                   | 1 | 16.0  | 1     | 12     | < 0.1 |
| Thysanoessa longipes A&J       | 1 | 16.0  | 1     | 12     | < 0.1 |
| Thysanoessa spinifera A&J      | 1 | 16.0  | 1     | 12     | < 0.1 |
|                                |   |       | ----- | -----  | ----- |
|                                |   |       | 6248  | 140576 | 100.  |

STA. 056 57 31.5 N 154 46.7 W 21 Oct 85 4:50

DEPTH 220 SAMPLING INTERVAL 0 - 211 VOLUME FILTERED 296.0 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %    |
|--------------------------------|-------------------|-------------|--------------|------------|------|
| Metridia pacifica C-5 M        | 66                | 512.0       | 1142         | 24087      | 24.0 |
| Metridia pacifica C-5 F        | 34                | 512.0       | 588          | 12409      | 12.4 |
| Acartia spp.                   | 32                | 512.0       | 553          | 11679      | 11.7 |
| Pseudocalanus spp. C-5 F       | 23                | 512.0       | 398          | 8394       | 8.4  |
| Metridia pacifica C-4          | 22                | 512.0       | 381          | 8029       | 8.0  |
| Metridia pacifica - adult F    | 66                | 102.4       | 228          | 4817       | 4.8  |
| Oithona spp.                   | 53                | 102.4       | 183          | 3869       | 3.9  |
| Pseudocalanus spp. - adult F   | 48                | 102.4       | 166          | 3504       | 3.5  |
| Other Copepoda <2mm            | 41                | 102.4       | 142          | 2993       | 3.0  |
| Larvacea                       | 30                | 102.4       | 104          | 2190       | 2.2  |
| Eucalanus bungii C-5 F         | 43                | 64.0        | 93           | 1962       | 2.0  |
| Metriididae C-3                | 25                | 102.4       | 86           | 1825       | 1.8  |
| Eucalanus bungii C-5 M         | 36                | 64.0        | 78           | 1642       | 1.6  |
| Chaetognatha >20mm             | 36                | 64.0        | 78           | 1642       | 1.6  |
| Pseudocalanus spp. C-5 M       | 22                | 102.4       | 76           | 1606       | 1.6  |
| Euphausiacea - furcilia        | 10                | 102.4       | 35           | 730        | 0.7  |
| Echinodermata - larva <5mm     | 10                | 102.4       | 35           | 730        | 0.7  |
| Calanus pacificus C-5          | 9                 | 102.4       | 31           | 657        | 0.7  |
| Bryozoa - cyphonautes <5mm     | 7                 | 102.4       | 24           | 511        | 0.5  |
| Chaetognatha 5-20mm            | 11                | 64.0        | 24           | 502        | 0.5  |
| Hyperiididae <5mm              | 6                 | 102.4       | 21           | 438        | 0.4  |
| Metridia pacifica - adult M    | 6                 | 102.4       | 21           | 438        | 0.4  |
| Thysanoessa inermis A&J        | 25                | 21.3        | 18           | 380        | 0.4  |
| Neocalanus plumchrus C-5       | 5                 | 102.4       | 17           | 365        | 0.4  |
| Pseudocalanus spp. - adult M   | 5                 | 102.4       | 17           | 365        | 0.4  |
| Other Copepoda 2-5mm           | 5                 | 102.4       | 17           | 365        | 0.4  |
| Cnidaria - medusa >5mm         | 24                | 21.3        | 17           | 364        | 0.4  |
| Ostracoda <5mm                 | 4                 | 102.4       | 14           | 292        | 0.3  |
| Eucalanus bungii C-4 F         | 4                 | 102.4       | 14           | 292        | 0.3  |
| Calanus pacificus C-4          | 4                 | 102.4       | 14           | 292        | 0.3  |
| Neocalanus plumchrus - adult F | 4                 | 102.4       | 14           | 292        | 0.3  |
| Polychaeta <5mm                | 3                 | 102.4       | 10           | 219        | 0.2  |
| Pseudocalanus spp. C-4 M       | 3                 | 102.4       | 10           | 219        | 0.2  |
| Calanus marshallae C-1         | 2                 | 102.4       | 7            | 146        | 0.1  |
| Calanus marshallae C-5         | 2                 | 102.4       | 7            | 146        | 0.1  |
| Cnidaria - medusa <5mm         | 2                 | 102.4       | 7            | 146        | 0.1  |
| Other zooplankton <5mm         | 2                 | 102.4       | 7            | 146        | 0.1  |
| Other Copepoda damaged         | 2                 | 102.4       | 7            | 146        | 0.1  |
| ?Pseudocalanus spp. C-3        | 2                 | 102.4       | 7            | 146        | 0.1  |
| Eucalanus bungii C-4 M         | 2                 | 102.4       | 7            | 146        | 0.1  |
| Eucalanus bungii - adult F     | 2                 | 64.0        | 4            | 91         | 0.1  |
| Cirripedia - cypris <5mm       | 1                 | 102.4       | 3            | 73         | 0.1  |
| Euphausiacea - nauplius        | 1                 | 102.4       | 3            | 73         | 0.1  |
| Eucalanus bungii C-3           | 1                 | 102.4       | 3            | 73         | 0.1  |
| Bivalvia <5mm                  | 1                 | 102.4       | 3            | 73         | 0.1  |
| Thecosomata <5mm               | 1                 | 102.4       | 3            | 73         | 0.1  |

|                             |   |       |       |        |       |
|-----------------------------|---|-------|-------|--------|-------|
| Calanus marshallae C-3      | 1 | 102.4 | 3     | 73     | 0.1   |
| Calanus marshallae C-4      | 1 | 102.4 | 3     | 73     | 0.1   |
| Invertebrata - egg <5mm     | 1 | 102.4 | 3     | 73     | 0.1   |
| Calanus pacificus - adult F | 1 | 102.4 | 3     | 73     | 0.1   |
| Pseudocalanus spp. C-4 F    | 1 | 102.4 | 3     | 73     | 0.1   |
| Thysanoessa spinifera A&J   | 4 | 21.3  | 3     | 61     | 0.1   |
| Gammaridea >5mm             | 4 | 21.3  | 3     | 61     | 0.1   |
| Hyperiidea >5mm             | 3 | 21.3  | 2     | 46     | < 0.1 |
| Natantia A&J >5mm           | 2 | 21.3  | 1     | 30     | < 0.1 |
| Cumacea >5mm                | 1 | 21.3  | 1     | 15     | < 0.1 |
| Thysanoessa longipes A&J    | 1 | 21.3  | 1     | 15     | < 0.1 |
| Neocalanus cristatus C-5    | 1 | 21.3  | 1     | 15     | < 0.1 |
| Invertebrata >5mm           | 1 | 21.3  | 1     | 15     | < 0.1 |
| Other Copepoda >5mm         | 1 | 21.3  | 1     | 15     | < 0.1 |
| Teleostei - larva >5mm      | 1 | 21.3  | 1     | 15     | < 0.1 |
|                             |   |       | ----- | -----  | ----- |
|                             |   |       | 4750  | 100228 | 100.  |

STA. 025 58 49.9 N 153 12.3 W 25 Oct 85 16:28

DEPTH 712 SAMPLING INTERVAL 0 - 110 VOLUME FILTERED 161.5 NET MESH 333

| Taxon                          | Number<br>counted | Sub/<br>fac | No./<br>10m3 | No./<br>m2 | %     |
|--------------------------------|-------------------|-------------|--------------|------------|-------|
| Pseudocalanus spp. C-5 M       | 255               | 128.0       | 2021         | 22231      | 34.7  |
| Pseudocalanus spp. C-5 F       | 150               | 128.0       | 1189         | 13077      | 20.4  |
| Pseudocalanus spp. - adult F   | 115               | 128.0       | 911          | 10026      | 15.7  |
| Acartia spp.                   | 52                | 128.0       | 412          | 4533       | 7.1   |
| Calanus marshallae C-5         | 25                | 128.0       | 198          | 2180       | 3.4   |
| Other Copepoda <2mm            | 19                | 128.0       | 151          | 1656       | 2.6   |
| Euphausiacea - furcilia        | 39                | 42.7        | 103          | 1134       | 1.8   |
| Pseudocalanus spp. C-4 M       | 11                | 128.0       | 87           | 959        | 1.5   |
| Metridia pacifica C-5 M        | 25                | 42.7        | 66           | 727        | 1.1   |
| Other Copepoda damaged         | 8                 | 128.0       | 63           | 697        | 1.1   |
| Other Copepoda 2-5mm           | 8                 | 128.0       | 63           | 697        | 1.1   |
| Pseudocalanus spp. C-4 F       | 7                 | 128.0       | 55           | 610        | 1.0   |
| Metridia pacifica C-5 F        | 17                | 42.7        | 45           | 494        | 0.8   |
| Pseudocalanus spp. - adult M   | 5                 | 128.0       | 40           | 436        | 0.7   |
| Euphausiacea - calyptopis 3    | 14                | 42.7        | 37           | 407        | 0.6   |
| Metridia pacifica C-4          | 13                | 42.7        | 34           | 378        | 0.6   |
| Ostracoda <5mm                 | 9                 | 42.7        | 24           | 262        | 0.4   |
| Euphausiacea - calyptopis 1    | 8                 | 42.7        | 21           | 233        | 0.4   |
| Larvacea                       | 8                 | 42.7        | 21           | 233        | 0.4   |
| Chaetognatha >20mm             | 42                | 8.0         | 21           | 229        | 0.4   |
| Hyperiididae <5mm              | 7                 | 42.7        | 19           | 204        | 0.3   |
| Oithona spp.                   | 7                 | 42.7        | 19           | 204        | 0.3   |
| Mysidacea <5mm                 | 6                 | 42.7        | 16           | 175        | 0.3   |
| Euphausiacea - calyptopis 2    | 6                 | 42.7        | 16           | 175        | 0.3   |
| ?Pseudocalanus spp. C-3        | 2                 | 128.0       | 16           | 174        | 0.3   |
| Metridiidae C-3                | 5                 | 42.7        | 13           | 145        | 0.2   |
| Metridia pacifica - adult F    | 5                 | 42.7        | 13           | 145        | 0.2   |
| Neocalanus plumchrus - adult F | 5                 | 42.7        | 13           | 145        | 0.2   |
| Invertebrata - egg <5mm        | 4                 | 42.7        | 11           | 116        | 0.2   |
| Bivalvia <5mm                  | 4                 | 42.7        | 11           | 116        | 0.2   |
| Calanus marshallae C-3         | 4                 | 42.7        | 11           | 116        | 0.2   |
| Polychaeta <5mm                | 4                 | 42.7        | 11           | 116        | 0.2   |
| Mysidacea >5mm                 | 20                | 8.0         | 10           | 109        | 0.2   |
| Thecosomata <5mm               | 3                 | 42.7        | 8            | 87         | 0.1   |
| Calanus marshallae C-4         | 1                 | 128.0       | 8            | 87         | 0.1   |
| Calanus marshallae - adult F   | 1                 | 128.0       | 8            | 87         | 0.1   |
| Thysanoessa inermis A&J        | 14                | 8.0         | 7            | 76         | 0.1   |
| Chaetognatha 5-20mm            | 12                | 8.0         | 6            | 65         | 0.1   |
| Echinodermata <5mm             | 2                 | 42.7        | 5            | 58         | 0.1   |
| Gammaridea <5mm                | 2                 | 42.7        | 5            | 58         | 0.1   |
| Eucalanus bungii C-5 F         | 7                 | 8.0         | 3            | 38         | 0.1   |
| Eucalanus bungii C-5 M         | 6                 | 8.0         | 3            | 33         | 0.1   |
| Cnidaria - medusa <5mm         | 1                 | 42.7        | 3            | 29         | < 0.1 |
| Cumacea <5mm                   | 1                 | 42.7        | 3            | 29         | < 0.1 |
| Natantia - larva               | 1                 | 42.7        | 3            | 29         | < 0.1 |
| Cirripedia - nauplius <5mm     | 1                 | 42.7        | 3            | 29         | < 0.1 |

|                            |   |       |       |       |       |
|----------------------------|---|-------|-------|-------|-------|
| Bryozoa - cyphonautes <5mm | 1 | 42.7  | 3     | 29    | < 0.1 |
| Eucalanus bungii C-1       | 1 | 42.7  | 3     | 29    | < 0.1 |
| Calanus marshallae C-1     | 1 | 42.7  | 3     | 29    | < 0.1 |
| Natantia A&J >5mm          | 5 | 8.0   | 2     | 27    | < 0.1 |
| Thysanoessa spinifera A&J  | 4 | 8.0   | 2     | 22    | < 0.1 |
| Teleostei - larva >5mm     | 3 | 8.0   | 1     | 16    | < 0.1 |
| Gammaridea >5mm            | 3 | 8.0   | 1     | 16    | < 0.1 |
| Hyperiidia >5mm            | 2 | 8.0   | 1     | 11    | < 0.1 |
| Cumacea >5mm               | 1 | 8.0   | < 1   | 5     | < 0.1 |
| Cnidaria - medusa >5mm     | 1 | 8.0   | < 1   | 5     | < 0.1 |
| Other Copepoda >5mm        | 1 | 8.0   | < 1   | 5     | < 0.1 |
| Gymnosomata >5mm           | 1 | 8.0   | < 1   | 5     | < 0.1 |
|                            |   | ----- | ----- | ----- |       |
|                            |   | 5823  | 64051 | 100.  |       |