

**A CHECKLIST OF ZOOPLANKTERS  
FROM THE GULF OF  
THE FARALLONES AND  
OFF NORTHERN CALIFORNIA**



**by**

**Robert N. Tasto,  
Deborah D. Mogelberg,  
Susan E. Hatfield and  
Roslynn Muller**

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## ABSTRACT

Plankton samples were collected from January through June 1975-80 as part of the Dungeness Crab Research Program. Zooplankters were identified and enumerated from 1975-77 and 1979 samples taken in the Gulf of the Farallones and from 1979 samples off northern California. A checklist of zooplankters found in these samples is presented along with information on location, frequency of occurrence, and density.

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#### ACKNOWLEDGMENTS

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## INTRODUCTION

One of the primary goals for the Department of Fish and Game's Dungeness Crab Research Program (Farley 1981) was the determination of the distribution and relative abundance of the larvae of Dungeness crab, *Cancer magister*. To achieve this goal, the Program found it necessary to conduct intensive plankton sampling because of the paucity of information in the literature on zooplankton from central and northern California. We identified and enumerated the wide variety of zooplankters in our samples, particularly brachyurans, because factors influencing their distribution and frequency of occurrence were likely related to those affecting *C. magister* larvae. We felt these data would contribute to the solution of one of the fundamental problems confronting our Program, and concurrently fill a void in the central California biological oceanographic data base.

The data presented in this checklist are derived from plankton samples collected from 1975 through 1977 and during 1979. Although many additional samples were collected during 1978, 1979, and 1980, complete analysis has been delayed and possibly curtailed. We believe that circumstances warrant prompt publication of the completed work and that an update of this document should be attempted if conditions permit.

## METHODS AND PROCEDURES

We collected 805 plankton samples in the Gulf of the Farallones between April 1975 and June 1977. The majority (624) of these samples was collected at 34 permanent stations spaced approximately 12 km apart in a grid pattern along transects perpendicular to the coastline (Figure 1). During March 1979 we collected 156 samples along transect lines off the coast from Cape Mendocino to the Gulf of the Farallones. Stations along

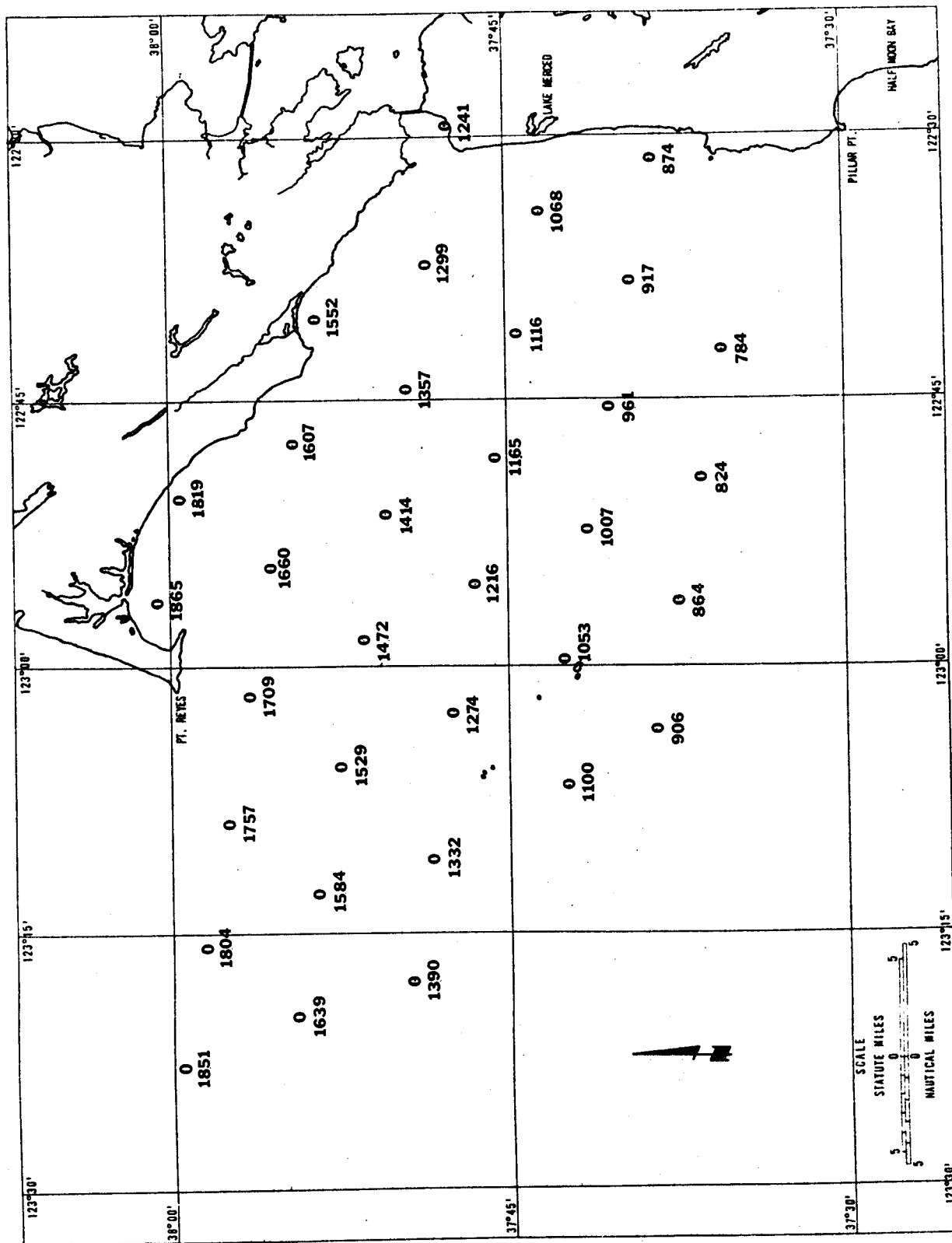


FIGURE 1. Locations of permanent sampling stations within the Gulf of the Farallones.



these transects were spaced from 2 to 9 km apart and were located as close as 7 km and as far as 185 km from shore (Figure 2). Each station was located as close as possible to the center of the 1 minute longitude by 1 minute latitude rectangle. Peak hatching of *C. magister* occurs from late December through mid-January and larval development ranges from 105 to 125 days (Reilly 1981). Plankton sampling during all 4 years was restricted to the period December to June to coincide with the period of abundance of the larvae.

Department research vessels, patrol boats, and charter vessels were used to tow plankton nets at 2-3 knots. Tow types included oblique, discrete depth horizontal (open-closing nets), and vertical. A 0.5-m, 0.505-mm mesh plankton net was used for most sampling between April 1975 and June 1977, although during January-February 1977, 100 tows were made with a 30-cm, 0.505-mm mesh Clark-Bumpus sampler. The samples analyzed for 1979 were taken with a 0.5-m, 1-mm mesh plankton net. Calibrated flow-meters were used to estimate the amount of water filtered by the nets. Salinity and temperature measurements of the water column were taken at all but a few stations.

Samples were preserved on shipboard in 10% buffered formalin and seawater and returned to our laboratory at Menlo Park for analysis. Large samples (>100 ml settled volume) were split with a Folsom Plankton Splitter. The entire sample, or all of one of the split portions, was inspected with the aid of a binocular microscope and the brachyurans removed, identified to stage, and enumerated. The 1975-1977 samples were then adjusted to 100 or 200 ml total volume, mechanically stirred, and subsampled with a 2-ml Stempel pipette.

All zooplankters in the subsample were identified to the lowest taxon

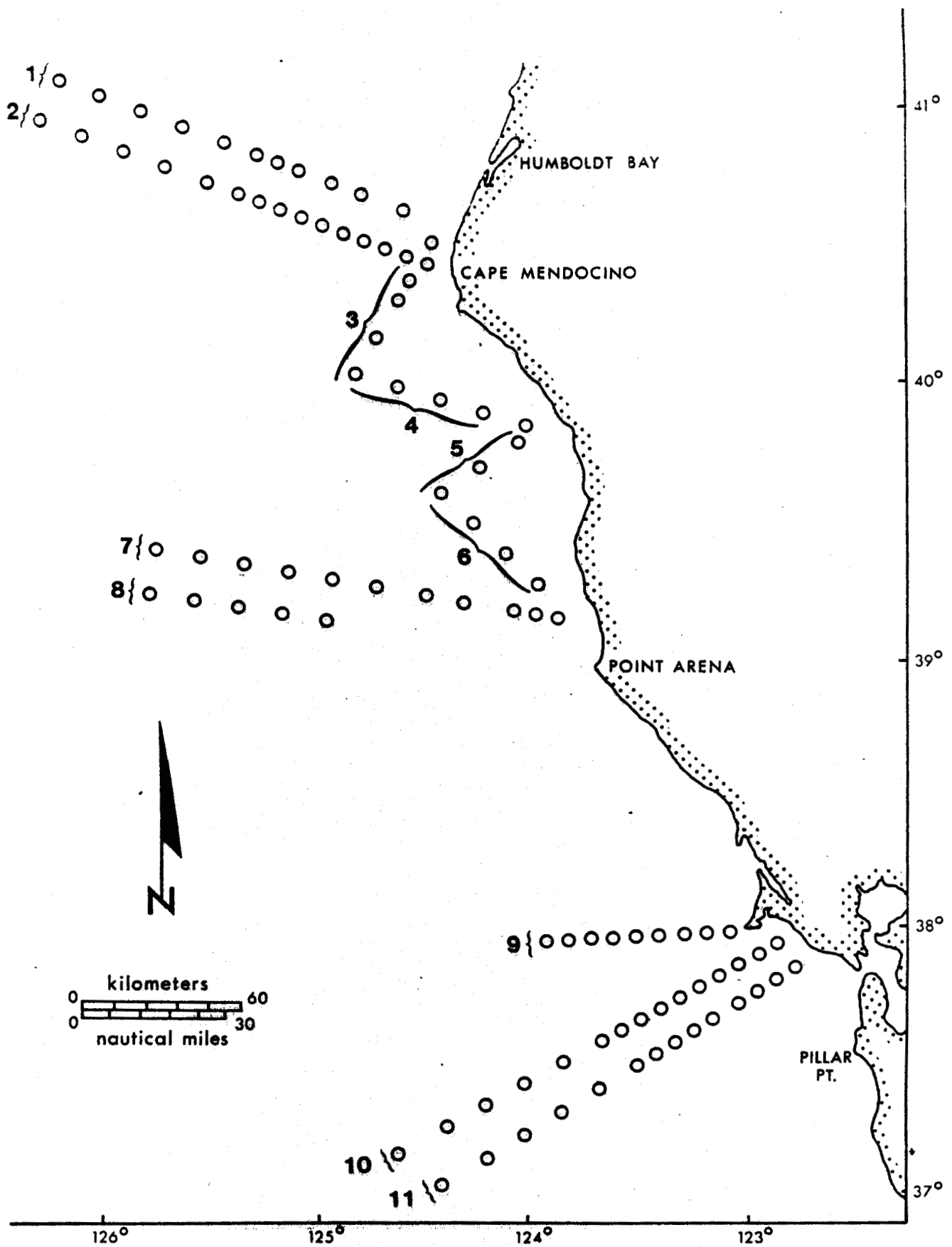


FIGURE 2. Sampling stations along transects (1-11) off northern California, 1979.

possible and enumerated. An additional aliquot (4-ml) was taken to enumerate uncommon zooplankters and followed by a second 4-ml aliquot to enumerate any rare zooplankters. Thus a total subsample of 10 ml generally was taken. Next the entire sample was inspected and all rare and large organisms identified and enumerated. Subsequently, the abundance of each organism was estimated for the sample and densities then were computed from frequency of occurrence and water filtered figures.

The majority of samples from 1979 cruises were aliquoted with a Folsom Plankton Splitter. Again, the zooplankters in one of the aliquots were identified to the lowest taxon possible and enumerated. Uncommon, rare, and large zooplankters were sorted for, identified, and enumerated in the remaining aliquots. All samples from 1975 through 1979 were preserved and retained.

#### PRESENTATION

We first present a checklist of the taxa found at the 34 permanent stations sampled between April 1975 and June 1977 (Table 1). This is supplemented with information regarding location, density, and frequency of occurrence.

Example:  $\frac{1165}{(31)}$  Station no.  
Total no. plankton tows this station

*Calanus cristatus*  $\frac{23}{(10)}$  Average density (organisms/100 m<sup>3</sup> water filtered)<sup>1/</sup>  
(taxon) No. of samples in which organism occurred

Specialized larval forms are listed first under phylum headings, then lower taxa are listed alphabetically under higher taxa. Taxa above the species level were taken from Barnes (1974).

We next present a checklist of zooplankters, as well as their

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<sup>1/</sup>  
Only for samples in which organism occurred

densities and frequencies of occurrence by transect, from samples collected off Cape Mendocino south to the Gulf of the Farallones in March 1979 (Table 2). Although both surface and oblique tows were taken at some stations, only oblique tow data are presented in this checklist (no additional species were found in any surface tow).

Example: 6 Transect no.

(4) Total no. oblique plankton tows this transect

*Lensia conoidea* 6 Average density (organisms/100 m<sup>3</sup> water filtered)<sup>1/</sup>  
(taxon) (3) No. of samples in which organisms occurred

Many kinds of data are not included in this report: density per occurrence; date, time, and depth of capture; salinity and temperature profiles; San Francisco Bay collection, etc. Some of this information will be published eventually and the rest is available upon request. We encourage investigators interested in these data to contact us. The final report of Dungeness Crab Research Program (Farley 1981) is scheduled to be published in the Department Fish Bulletin Series.

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- Barnes, Robert D. 1974. Invertebrate Zoology (3rd edition). W. B. Saunders Co. Phila., Lond., Toronto. 870 p.
- Farley, Timothy C., Compiler. 1981. Dungeness Crab Research Program, Final Report. Calif. Dept. Fish and Game. Fish Bull. In Press.
- Reilly, Paul N. 1981. Dynamics of the Dungeness crab *Cancer magister*, larvae off central and northern California. In (Timothy C. Farley, compiler) Dungeness Crab Research Program, Final Report. Calif. Dept. Fish and Game. Fish Bull. In Press.

Table 1. A Checklist of Zooplankters from the Gulf of the Farallones.

| TAXON                                | STATION     |             |             |             |             |             |             |              |              |              |              |              |              |              |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                      | 784<br>(23) | 824<br>(12) | 864<br>(24) | 874<br>(18) | 906<br>(23) | 917<br>(12) | 961<br>(21) | 1007<br>(13) | 1053<br>(18) | 1068<br>(17) | 1100<br>(12) | 1116<br>(14) | 1165<br>(31) | 1216<br>(12) |
| PHYLUM COELENTERATA                  |             |             |             |             |             |             |             |              |              |              |              |              |              |              |
| Class Hydrozoa                       | 24<br>(2)   | -           | 53<br>(3)   | -           | 858<br>(3)  | 5<br>(2)    | 45<br>(2)   | 6<br>(1)     | 1361<br>(5)  | 1<br>(1)     | 31<br>(4)    | 47<br>(1)    | 39<br>(3)    | 275<br>(4)   |
| Order Trachylina                     |             |             |             |             |             |             |             |              |              |              |              |              |              |              |
| <i>Liriope tetraphylla</i>           |             |             |             |             |             |             |             |              |              |              |              |              |              |              |
| Order Hydroida                       |             |             |             |             |             |             |             |              |              |              |              |              |              |              |
| <i>Aegina citrea</i>                 | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Aglantha digitale</i>             | -           | -           | -           | -           | -           | -           | -           | 1<br>(1)     | 2<br>(2)     | -            | -            | -            | 1<br>(1)     | -            |
| <i>Climacocodon</i> sp.              | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | 17<br>(1)    | -            | -            | -            |
| <i>Eirene mollis</i>                 | -           | -           | -           | -           | -           | 287<br>(1)  | -           | -            | -            | -            | -            | 3<br>(1)     | 2<br>(1)     | -            |
| <i>Eutonia indicans</i>              | 3<br>(1)    | -           | 1<br>(1)    | 18<br>(1)   | -           | -           | 150<br>(1)  | -            | -            | 18<br>(1)    | -            | -            | -            | -            |
| <i>Obelia</i> spp.                   | -           | -           | -           | 42<br>(1)   | -           | -           | -           | -            | -            | -            | 9<br>(1)     | -            | 1<br>(1)     | -            |
| <i>Polyorchis pencillatus</i>        | -           | -           | -           | 4<br>(1)    | -           | -           | 2<br>(1)    | -            | -            | -            | -            | 8<br>(2)     | -            | -            |
| <i>Proboscidactyla circumsabella</i> | -           | -           | -           | -           | -           | 476<br>(1)  | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Sarsia</i> spp.                   | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Tiaropsidium</i> sp.              | 11<br>(5)   | -           | -           | 13<br>(2)   | -           | 230<br>(1)  | 732<br>(3)  | 46<br>(1)    | -            | 47<br>(2)    | -            | 9<br>(2)     | 1<br>(1)     | -            |
| Order Chondrophora                   |             |             |             |             |             |             |             |              |              |              |              |              |              |              |
| <i>Vellela vellela</i>               | -           | -           | -           | -           | 3<br>(2)    | -           | 4<br>(1)    | -            | 11<br>(2)    | -            | -            | -            | 1<br>(1)     | -            |
| Order Siphonophora                   |             |             |             |             |             |             |             |              |              |              |              |              |              |              |
| Calycophora                          | 8<br>(2)    | -           | 7<br>(6)    | 1<br>(1)    | 52<br>(5)   | 28<br>(2)   | 9<br>(1)    | 1<br>(3)     | 15<br>(2)    | -            | 33<br>(3)    | -            | 7<br>(2)     | 61<br>(3)    |
| Unidentified                         |             |             |             |             |             |             |             |              |              |              |              |              |              |              |
| <i>Chelophyles appendiculata</i>     | -           | -           | 7<br>(2)    | -           | 136<br>(2)  | -           | -           | -            | 14<br>(12)   | -            | 19<br>(1)    | -            | 9<br>(1)     | 20<br>(3)    |

STATION

| 1241<br>(27)     | 1274<br>(23)      | 1299<br>(19)      | 1332<br>(12)    | 1357<br>(11) | 1390<br>(23)     | 1414<br>(22)     | 1472<br>(12)     | 1529<br>(23)     | 1552<br>(9)      | 1584<br>(12)     | 1607<br>(23)      | 1639<br>(14)     | 1660<br>(25)     | 1709<br>(12)      | 1757<br>(24)     | 1804<br>(14)      | 1819<br>(22)     | 1851<br>(25)     | 1865<br>(22)      |
|------------------|-------------------|-------------------|-----------------|--------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|------------------|-------------------|------------------|------------------|-------------------|
| -                | $\frac{178}{(5)}$ | $\frac{27}{(2)}$  | $\frac{6}{(3)}$ | -            | $\frac{97}{(4)}$ | $\frac{8}{(2)}$  | $\frac{97}{(3)}$ | $\frac{44}{(1)}$ | $\frac{22}{(1)}$ | -                | $\frac{30}{(4)}$  | $\frac{37}{(3)}$ | -                | $\frac{112}{(1)}$ | $\frac{24}{(1)}$ | $\frac{120}{(3)}$ | $\frac{7}{(1)}$  | $\frac{28}{(4)}$ | -                 |
| -                | -                 | -                 | -               | -            | -                | -                | -                | -                | -                | -                | -                 | -                | -                | -                 | -                | $\frac{13}{(1)}$  | -                | -                | -                 |
| -                | $\frac{1}{(1)}$   | -                 | -               | -            | $\frac{1}{(1)}$  | $\frac{1}{(1)}$  | -                | -                | -                | -                | $\frac{3}{(13)}$  | $\frac{1}{(1)}$  | -                | -                 | $\frac{3}{(4)}$  | -                 | -                | $\frac{1}{(1)}$  | -                 |
| -                | -                 | -                 | -               | -            | -                | -                | -                | -                | -                | -                | -                 | -                | -                | -                 | -                | -                 | -                | -                | -                 |
| $\frac{6}{(2)}$  | -                 | -                 | -               | -            | $\frac{1}{(1)}$  | -                | -                | -                | -                | -                | $\frac{289}{(2)}$ | -                | $\frac{2}{(1)}$  | -                 | -                | -                 | $\frac{36}{(4)}$ | -                | $\frac{105}{(2)}$ |
| $\frac{2}{(1)}$  | -                 | -                 | -               | -            | -                | -                | -                | -                | -                | -                | -                 | -                | -                | -                 | -                | -                 | -                | -                | -                 |
| $\frac{44}{(1)}$ | -                 | -                 | -               | -            | -                | -                | -                | -                | -                | -                | -                 | -                | -                | -                 | -                | -                 | -                | -                | $\frac{20}{(2)}$  |
| $\frac{98}{(9)}$ | -                 | $\frac{4}{(1)}$   | -               | -            | -                | -                | -                | -                | -                | -                | -                 | -                | $\frac{1}{(1)}$  | -                 | -                | -                 | -                | -                | -                 |
| $\frac{88}{(1)}$ | -                 | -                 | -               | -            | -                | -                | -                | -                | -                | -                | -                 | -                | -                | -                 | -                | -                 | -                | -                | -                 |
| $\frac{12}{(4)}$ | -                 | -                 | -               | -            | -                | -                | -                | -                | -                | $\frac{11}{(1)}$ | -                 | $\frac{8}{(2)}$  | -                | -                 | -                | -                 | $\frac{10}{(1)}$ | -                | $\frac{15}{(2)}$  |
| $\frac{45}{(1)}$ | -                 | $\frac{467}{(3)}$ | -               | -            | -                | -                | -                | -                | -                | -                | $\frac{34}{(1)}$  | -                | -                | -                 | -                | -                 | -                | -                | $\frac{7}{(1)}$   |
| -                | -                 | $\frac{5}{(1)}$   | -               | -            | -                | -                | $\frac{3}{(1)}$  | -                | $\frac{2}{(1)}$  | -                | $\frac{2}{(1)}$   | -                | -                | -                 | -                | -                 | -                | -                | -                 |
| -                | $\frac{52}{(1)}$  | -                 | $\frac{8}{(1)}$ | -            | $\frac{13}{(2)}$ | $\frac{5}{(2)}$  | $\frac{65}{(1)}$ | $\frac{3}{(2)}$  | -                | $\frac{3}{(4)}$  | $\frac{83}{(3)}$  | $\frac{7}{(1)}$  | $\frac{10}{(2)}$ | $\frac{1}{(1)}$   | $\frac{1}{(2)}$  | $\frac{206}{(5)}$ | $\frac{1}{(1)}$  | $\frac{12}{(3)}$ | $\frac{14}{(3)}$  |
| -                | $\frac{65}{(2)}$  | -                 | $\frac{6}{(2)}$ | -            | $\frac{2}{(2)}$  | $\frac{19}{(1)}$ | $\frac{12}{(1)}$ | -                | -                | -                | $\frac{29}{(1)}$  | -                | -                | -                 | -                | $\frac{14}{(1)}$  | -                | -                | -                 |

Table 1 Cont.

| TAXON                                     | STATION     |             |             |             |             |             |             |              |              |              |              |              |              |              |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|   | 784<br>(23) | 824<br>(12) | 864<br>(24) | 874<br>(18) | 906<br>(23) | 917<br>(12) | 961<br>(21) | 1007<br>(13) | 1053<br>(18) | 1068<br>(17) | 1100<br>(12) | 1116<br>(14) | 1165<br>(31) | 1216<br>(12) |
| <i>Hippopodius</i> sp.                    | -           | -           | -           | -           | -           | -           | -           | -            | -            | 1<br>(1)     | -            | -            | -            | -            |
| <i>Lensia challengerii</i>                | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Lensia conoidea</i>                    | -           | -           | -           | -           | 1<br>(1)    | -           | -           | 2<br>(2)     | 2<br>(2)     | -            | -            | -            | 1<br>(1)     | 2<br>(1)     |
| <i>Lensia multicrestata</i>               | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Lensia</i> spp.                        | -           | -           | -           | -           | -           | -           | -           | 9<br>(1)     | -            | -            | -            | -            | -            | -            |
| <i>Muggiaea atlantica</i>                 | 29<br>(1)   | 6<br>(2)    | 5<br>(2)    | -           | 10<br>(2)   | 55<br>(3)   |             |              | 58<br>(1)    | 1<br>(1)     | 13<br>(1)    | 9<br>(1)     | 2<br>(1)     | 18<br>(1)    |
| <i>Nanomia bijuga</i>                     | 29<br>(1)   | 97<br>(2)   | 5<br>(4)    | -           | 8<br>(2)    | -           | -           | 1<br>(1)     | -            | -            | 5<br>(2)     | -            | 1<br>(1)     | 9<br>(3)     |
| Class Scyphozoa<br>ephyra                 | -           | -           | -           | -           | -           | -           | -           | -            | -            | 1<br>(1)     | -            | -            | -            | -            |
| *   | *           | *           | *           | *           | *           | *           | *           | *            | *            | *            | *            | *            | *            | *            |
| PHYLUM CTENOPHORA<br><i>Beroe cucumis</i> | -           | 1<br>(4)    | 1<br>(4)    | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | 4<br>(1)     |
| <i>Bolinopsis<br/>microptera</i>          | -           | 1<br>(1)    | -           | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Hormiphora</i> sp.                     | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Pleurobrachia<br/>bachei</i>           | 4<br>(7)    | 5<br>(3)    | 7<br>(7)    | 173<br>(8)  | -           | 2<br>(1)    | 10<br>(7)   | 4<br>(6)     | 11<br>(5)    | 56<br>(11)   | 5<br>(4)     | 12<br>(4)    | 79<br>(6)    | 10<br>(7)    |
| *   | *           | *           | *           | *           | *           | *           | *           | *            | *            | *            | *            | *            | *            | *            |



STATION

| 1241<br>(27)      | 1274<br>(23)    | 1299<br>(19)    | 1332<br>(12)    | 1357<br>(11)    | 1390<br>(23)     | 1414<br>(22)    | 1472<br>(12)     | 1529<br>(23)    | 1552<br>(9)     | 1584<br>(12)    | 1607<br>(23)     | 1639<br>(14)    | 1660<br>(25)    | 1709<br>(12)    | 1757<br>(24)     | 1804<br>(14)     | 1819<br>(22)     | 1851<br>(25)     | 1865<br>(22)      |
|-------------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|-------------------|
| -                 | -               | -               | $\frac{2}{(1)}$ | -               | -                | -               | $\frac{1}{(1)}$  | -               | -               | -               | -                | -               | -               | -               | -                | -                | $\frac{1}{(1)}$  | -                | -                 |
| -                 | $\frac{2}{(1)}$ | -               | $\frac{1}{(1)}$ | -               | -                | -               | $\frac{1}{(1)}$  | -               | -               | -               | -                | -               | -               | -               | -                | -                | $\frac{1}{(1)}$  | -                | -                 |
| -                 | -               | -               | -               | -               | $\frac{1}{(1)}$  | $\frac{2}{(1)}$ | -                | -               | -               | $\frac{1}{(1)}$ | -                | -               | $\frac{6}{(1)}$ | -               | $\frac{1}{(1)}$  | $\frac{55}{(1)}$ | -                | $\frac{1}{(1)}$  | -                 |
| -                 | -               | -               | -               | -               | -                | -               | -                | -               | -               | -               | -                | -               | -               | -               | $\frac{1}{(1)}$  | -                | -                | -                | -                 |
| -                 | -               | -               | $\frac{1}{(1)}$ | -               | -                | -               | -                | -               | -               | -               | -                | -               | -               | -               | -                | -                | -                | -                | -                 |
| -                 | -               | -               | $\frac{3}{(1)}$ | $\frac{6}{(2)}$ | $\frac{23}{(2)}$ | -               | $\frac{43}{(1)}$ | $\frac{2}{(1)}$ | -               | $\frac{9}{(1)}$ | $\frac{29}{(1)}$ | $\frac{1}{(1)}$ | -               | -               | -                | -                | -                | $\frac{44}{(2)}$ | $\frac{28}{(1)}$  |
| -                 | -               | -               | $\frac{1}{(1)}$ | -               | $\frac{4}{(4)}$  | $\frac{1}{(1)}$ | -                | $\frac{1}{(3)}$ | -               | $\frac{1}{(2)}$ | -                | $\frac{1}{(1)}$ | $\frac{1}{(3)}$ | -               | $\frac{9}{(2)}$  | $\frac{7}{(2)}$  | -                | $\frac{6}{(6)}$  | -                 |
| $\frac{9}{(1)}$   | -               | $\frac{1}{(1)}$ | -               | $\frac{1}{(1)}$ | -                | -               | -                | -               | -               | -               | $\frac{1}{(1)}$  | -               | -               | -               | -                | $\frac{4}{(1)}$  | $\frac{1}{(3)}$  | -                | $\frac{320}{(2)}$ |
| *                 | *               | *               | *               | *               | *                | *               | *                | *               | *               | *               | *                | *               | *               | *               | *                | *                | *                | *                | *                 |
| -                 | -               | -               | -               | -               | -                | -               | -                | -               | -               | -               | -                | $\frac{1}{(1)}$ | -               | -               | -                | -                | -                | -                | -                 |
| -                 | -               | -               | -               | -               | $\frac{1}{(1)}$  | -               | -                | -               | -               | -               | -                | -               | -               | -               | -                | -                | -                | -                | -                 |
| -                 | -               | -               | -               | -               | -                | -               | -                | -               | -               | -               | -                | $\frac{6}{(2)}$ | -               | -               | -                | -                | -                | -                | -                 |
| $\frac{47}{(10)}$ | $\frac{9}{(6)}$ | $\frac{9}{(9)}$ | $\frac{2}{(6)}$ | $\frac{1}{(6)}$ | $\frac{48}{(3)}$ | $\frac{2}{(4)}$ | $\frac{14}{(4)}$ | $\frac{4}{(7)}$ | $\frac{2}{(1)}$ | $\frac{3}{(5)}$ | $\frac{6}{(10)}$ | $\frac{1}{(1)}$ | $\frac{4}{(9)}$ | $\frac{4}{(4)}$ | $\frac{8}{(10)}$ | $\frac{43}{(5)}$ | $\frac{12}{(6)}$ | $\frac{6}{(7)}$  | $\frac{16}{(7)}$  |
| *                 | *               | *               | *               | *               | *                | *               | *                | *               | *               | *               | *                | *               | *               | *               | *                | *                | *                | *                | *                 |

Table 1 Cont.

| TAXON  | STATION          |                   |                   |                   |                  |                  |                  |                   |                    |                  |                  |                  |                   |                   |
|--|------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|-------------------|--------------------|------------------|------------------|------------------|-------------------|-------------------|
|  | 784<br>(23)      | 824<br>(12)       | 864<br>(24)       | 874<br>(18)       | 906<br>(23)      | 917<br>(12)      | 961<br>(21)      | 1007<br>(13)      | 1053<br>(18)       | 1068<br>(17)     | 1100<br>(12)     | 1116<br>(14)     | 1165<br>(31)      | 1216<br>(12)      |
| PHYLUM ANNELIDA<br>Class Polychaeta<br>Unidentified larvae | $\frac{23}{(1)}$ | -                 | $\frac{6}{(3)}$   | $\frac{153}{(6)}$ | -                | $\frac{1}{(1)}$  | $\frac{22}{(2)}$ | -                 | -                  | $\frac{65}{(6)}$ | -                | $\frac{1}{(2)}$  | $\frac{29}{(1)}$  | -                 |
| <i>Autolytus</i> sp.                                       | $\frac{9}{(1)}$  | -                 | $\frac{1}{(1)}$   | $\frac{6}{(3)}$   | -                | -                | -                | -                 | -                  | $\frac{1}{(1)}$  | -                | -                | $\frac{1}{(2)}$   | -                 |
| <i>Capitellid</i> larvae<br>(Larvae only)                  | -                | $\frac{13}{(2)}$  | -                 | -                 | -                | -                | $\frac{12}{(2)}$ | $\frac{23}{(2)}$  | -                  | -                | -                | -                | -                 | -                 |
| Sabellid Larvae  | -                | -                 | -                 | $\frac{1}{(2)}$   | -                | $\frac{37}{(1)}$ | -                | -                 | -                  | -                | -                | -                | -                 | -                 |
| Spionid Larvae   | $\frac{9}{(1)}$  | -                 | -                 | $\frac{10}{(1)}$  | -                | -                | -                | -                 | -                  | $\frac{9}{(2)}$  | -                | $\frac{26}{(1)}$ | $\frac{28}{(1)}$  | $\frac{118}{(1)}$ |
| <i>Tomopteris septentionalis</i>                           | $\frac{1}{(2)}$  | $\frac{104}{(1)}$ | $\frac{7}{(7)}$   | -                 | $\frac{15}{(6)}$ | -                | $\frac{2}{(1)}$  | $\frac{16}{(2)}$  | $\frac{2}{(2)}$    | $\frac{15}{(3)}$ | -                | $\frac{1}{(1)}$  | $\frac{9}{(5)}$   | $\frac{16}{(4)}$  |
| *  | *                | *                 | *                 | *                 | *                | *                | *                | *                 | *                  | *                | *                | *                | *                 | *                 |
| PHYLUM MOLLUSCA<br>Class Gastropoda<br>egg case            | -                | -                 | -                 | -                 | -                | -                | -                | -                 | -                  | -                | -                | -                | -                 | -                 |
| veliger  | $\frac{8}{(4)}$  | $\frac{137}{(4)}$ | $\frac{13}{(8)}$  | $\frac{211}{(1)}$ | $\frac{3}{(4)}$  | $\frac{5}{(3)}$  | $\frac{18}{(6)}$ | $\frac{129}{(4)}$ | $\frac{3}{(5)}$    | $\frac{7}{(5)}$  | $\frac{1}{(4)}$  | $\frac{4}{(4)}$  | $\frac{5}{(6)}$   | $\frac{2}{(2)}$   |
| <i>Atlanta peroni</i>                                      | $\frac{9}{(1)}$  | $\frac{21}{(3)}$  | $\frac{45}{(2)}$  | $\frac{1}{(1)}$   | $\frac{36}{(5)}$ | $\frac{9}{(1)}$  | $\frac{8}{(1)}$  | $\frac{6}{(2)}$   | $\frac{35}{(4)}$   | -                | $\frac{10}{(3)}$ | $\frac{23}{(2)}$ | $\frac{8}{(3)}$   | $\frac{9}{(2)}$   |
| <i>Clio pyramidata</i>                                     | -                | -                 | -                 | -                 | -                | -                | -                | -                 | -                  | -                | -                | -                | -                 | -                 |
| <i>Desmopterus pacificus</i>                               | $\frac{1}{(1)}$  | $\frac{1}{(1)}$   | $\frac{3}{(3)}$   | -                 | $\frac{1}{(2)}$  | -                | -                | $\frac{1}{(1)}$   | -                  | -                | $\frac{10}{(2)}$ | -                | -                 | $\frac{9}{(1)}$   |
| <i>Limacina helicina</i>                                   | $\frac{7}{(7)}$  | $\frac{9}{(2)}$   | $\frac{32}{(10)}$ | $\frac{1}{(1)}$   | $\frac{12}{(9)}$ | -                | $\frac{17}{(4)}$ | $\frac{45}{(7)}$  | $\frac{100}{(10)}$ | -                | $\frac{24}{(5)}$ | $\frac{3}{(1)}$  | $\frac{220}{(9)}$ | $\frac{34}{(7)}$  |
| <i>Limacina</i> spp.                                       | -                | -                 | -                 | -                 | -                | $\frac{9}{(1)}$  | -                | -                 | -                  | -                | -                | -                | -                 | -                 |

STATION

| 1241<br>(27)     | 1274<br>(23)      | 1299<br>(19)     | 1332<br>(12)     | 1357<br>(11)     | 1390<br>(23)     | 1414<br>(22)     | 1472<br>(12)     | 1529<br>(23)     | 1552<br>(9)      | 1584<br>(12)     | 1607<br>(23)     | 1639<br>(14)     | 1660<br>(25)      | 1709<br>(12)     | 1757<br>(24)      | 1804<br>(14)     | 1819<br>(22)      | 1851<br>(25)     | 1865<br>(22)     |
|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|-------------------|------------------|-------------------|------------------|------------------|
| $\frac{97}{(3)}$ | -                 | $\frac{40}{(5)}$ | -                | $\frac{1}{(2)}$  | $\frac{12}{(1)}$ | -                | $\frac{9}{(1)}$  | -                | $\frac{1}{(1)}$  | $\frac{36}{(4)}$ | -                | -                | $\frac{29}{(1)}$  | $\frac{44}{(3)}$ | $\frac{8}{(3)}$   | $\frac{28}{(2)}$ | $\frac{32}{(7)}$  | $\frac{1}{(1)}$  | $\frac{82}{(5)}$ |
| $\frac{1}{(1)}$  | $\frac{1}{(3)}$   | $\frac{3}{(2)}$  | -                | -                | $\frac{1}{(1)}$  | $\frac{1}{(1)}$  | -                | -                | -                | $\frac{20}{(1)}$ | $\frac{33}{(1)}$ | $\frac{1}{(1)}$  | $\frac{9}{(1)}$   | -                | -                 | -                | -                 | -                | $\frac{22}{(1)}$ |
| -                | -                 | -                | -                | -                | -                | $\frac{52}{(2)}$ | -                | -                | -                | $\frac{9}{(1)}$  | $\frac{13}{(2)}$ | -                | -                 | $\frac{20}{(3)}$ | $\frac{19}{(1)}$  | -                | -                 | -                | -                |
| $\frac{9}{(1)}$  | -                 | -                | -                | -                | -                | -                | $\frac{33}{(1)}$ | $\frac{1}{(1)}$  | -                | -                | $\frac{41}{(1)}$ | -                | -                 | -                | $\frac{40}{(1)}$  | -                | -                 | -                | -                |
| $\frac{25}{(1)}$ | -                 | -                | -                | $\frac{26}{(1)}$ | -                | -                | -                | -                | -                | -                | $\frac{69}{(1)}$ | -                | $\frac{184}{(1)}$ | -                | -                 | -                | $\frac{28}{(2)}$  | -                | $\frac{82}{(1)}$ |
| $\frac{2}{(1)}$  | $\frac{3}{(4)}$   | -                | $\frac{8}{(3)}$  | -                | $\frac{12}{(6)}$ | $\frac{11}{(3)}$ | $\frac{4}{(3)}$  | $\frac{4}{(7)}$  | -                | $\frac{1}{(1)}$  | $\frac{41}{(1)}$ | $\frac{2}{(2)}$  | $\frac{16}{(4)}$  | $\frac{3}{(1)}$  | $\frac{5}{(5)}$   | $\frac{12}{(3)}$ | $\frac{111}{(1)}$ | $\frac{37}{(9)}$ | -                |
| *                | *                 | *                | *                | *                | *                | *                | *                | *                | *                | *                | *                | *                | *                 | *                | *                 | *                | *                 | *                | *                |
| $\frac{7}{(2)}$  | -                 | -                | -                | -                | -                | -                | -                | -                | -                | -                | -                | -                | -                 | -                | -                 | -                | -                 | -                | -                |
| $\frac{44}{(1)}$ | $\frac{6}{(5)}$   | $\frac{4}{(4)}$  | $\frac{7}{(2)}$  | -                | $\frac{1}{(3)}$  | $\frac{30}{(6)}$ | $\frac{10}{(6)}$ | $\frac{17}{(4)}$ | -                | $\frac{6}{(4)}$  | $\frac{2}{(4)}$  | $\frac{1}{(3)}$  | $\frac{10}{(7)}$  | $\frac{2}{(2)}$  | $\frac{3}{(4)}$   | $\frac{22}{(5)}$ | $\frac{5}{(5)}$   | $\frac{1}{(4)}$  | $\frac{9}{(2)}$  |
| -                | $\frac{14}{(2)}$  | -                | $\frac{2}{(2)}$  | -                | $\frac{3}{(2)}$  | $\frac{20}{(4)}$ | $\frac{1}{(1)}$  | $\frac{37}{(2)}$ | -                | $\frac{6}{(2)}$  | $\frac{15}{(2)}$ | $\frac{5}{(2)}$  | $\frac{11}{(2)}$  | $\frac{44}{(4)}$ | $\frac{350}{(1)}$ | $\frac{12}{(3)}$ | -                 | $\frac{1}{(1)}$  | -                |
| -                | -                 | -                | -                | -                | -                | -                | $\frac{1}{(1)}$  | -                | -                | -                | -                | -                | -                 | -                | -                 | -                | -                 | -                | -                |
| -                | $\frac{1}{(1)}$   | -                | $\frac{3}{(1)}$  | -                | -                | $\frac{9}{(1)}$  | -                | $\frac{2}{(1)}$  | -                | -                | $\frac{19}{(2)}$ | $\frac{1}{(1)}$  | -                 | $\frac{2}{(1)}$  | -                 | $\frac{18}{(2)}$ | -                 | $\frac{1}{(1)}$  | -                |
| $\frac{55}{(1)}$ | $\frac{23}{(10)}$ | -                | $\frac{29}{(4)}$ | $\frac{24}{(6)}$ | $\frac{49}{(7)}$ | $\frac{57}{(5)}$ | $\frac{36}{(6)}$ | $\frac{27}{(7)}$ | $\frac{44}{(1)}$ | $\frac{11}{(5)}$ |                  | $\frac{13}{(6)}$ | $\frac{29}{(9)}$  | $\frac{4}{(2)}$  | $\frac{22}{(10)}$ | $\frac{16}{(7)}$ | $\frac{1}{(1)}$   | $\frac{1}{(1)}$  | $\frac{27}{(3)}$ |
| $\frac{29}{(1)}$ | $\frac{18}{(2)}$  | -                | -                | -                | -                | -                | -                | $\frac{1}{(1)}$  | -                | $\frac{4}{(4)}$  | $\frac{2}{(2)}$  | -                | -                 | $\frac{12}{(1)}$ | $\frac{16}{(1)}$  | -                | -                 | -                | -                |

Table 1 Cont.

| TAXON   | STATION     |             |             |             |             |             |             |              |              |              |              |              |              |              |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|   | 784<br>(23) | 824<br>(12) | 864<br>(24) | 874<br>(18) | 906<br>(23) | 917<br>(12) | 961<br>(21) | 1007<br>(13) | 1053<br>(18) | 1068<br>(17) | 1100<br>(12) | 1116<br>(14) | 1165<br>(31) | 1216<br>(12) |
| <i>Peraclis</i> sp.   | 6<br>(1)    | -           | -           | 11<br>(2)   | -           | 11<br>(1)   | -           | -            | -            | 10<br>(1)    | -            | 69<br>(2)    | 42<br>(2)    | -            |
| Class Cephalopoda<br>octopus immature   | 1<br>(1)    | 1<br>(1)    | 1<br>(1)    | -           | -           | 1<br>(1)    | -           | -            | -            | 1<br>(1)     | -            | -            | -            | -            |
| squid immature  | -           | 1<br>(1)    | 6<br>(2)    | -           | 1<br>(2)    | -           | 2<br>(1)    | -            | 3<br>(1)     | -            | 2<br>(1)     | -            | -            | 8<br>(1)     |
| *   | *           | *           | *           | *           | *           | *           | *           | *            | *            | *            | *            | *            | *            | *            |
| PHYLUM ARTHROPODA<br>Class Crustacea<br>Subclass Branchiopoda<br>Suborder Cladocera | -           | -           | -           | 1<br>(1)    | -           | 1<br>(1)    | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Evadne</i> spp.  | 8<br>(2)    | 17<br>(1)   | 69<br>(3)   | 8<br>(4)    | 9<br>(1)    | 347<br>(3)  | 63<br>(2)   | 57<br>(2)    | 16<br>(3)    | -            | 301<br>(3)   | 31<br>(3)    | 249<br>(2)   | -            |
| <i>Podon</i> spp.   | -           | -           | -           | 170<br>(1)  | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| Subclass Ostracoda  | 37<br>(5)   | 18<br>(3)   | 30<br>(7)   | 17<br>(1)   | 61<br>(4)   | 47<br>(2)   | 58<br>(4)   | 20<br>(4)    | 55<br>(6)    | 1<br>(1)     | 73<br>(4)    | 66<br>(4)    | 20<br>(7)    | 25<br>(5)    |
| <i>Conchoecia<br/>daphnoides</i>  | -           | 1<br>(1)    | -           | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Conchoecia elegans</i>   | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Conchoecia oblonga</i>   | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Conchoecia</i> spp.  | 12<br>(1)   | -           | 2<br>(1)    | -           | -           | -           | -           | -            | -            | -            | 8<br>(1)     | -            | 24<br>(5)    | 6<br>(1)     |
| Subclass Copepoda   | -           | -           | -           | -           | -           | -           | -           | -            | 89<br>(2)    | -            | -            | -            | -            | -            |
| nauplii   | -           | -           | -           | 1363<br>(1) | -           | 42<br>(3)   | -           | -            | -            | 1188<br>(1)  | -            | -            | -            | -            |

STATION

| 1241<br>(27) | 1274<br>(23) | 1299<br>(19) | 1332<br>(12) | 1357<br>(11) | 1390<br>(23) | 1414<br>(22) | 1472<br>(12) | 1529<br>(23) | 1552<br>(9) | 1584<br>(12) | 1607<br>(23) | 1639<br>(14) | 1660<br>(25) | 1709<br>(12) | 1757<br>(24) | 1804<br>(14) | 1819<br>(22) | 1851<br>(25) | 1865<br>(22) |   |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---|
| -            | 8<br>(2)     | 5<br>(1)     | -            | -            | -            | -            | -            | 45<br>(1)    | -           | -            | 32<br>(2)    | -            | -            | 75<br>(1)    | 24<br>(2)    | -            | 1<br>(1)     | 38<br>(1)    | 27<br>(3)    |   |
| 9<br>(1)     | -            | 1<br>(1)     | -            | -            | -            | 1<br>(1)     | 1<br>(1)     | 1<br>(1)     | -           | 1<br>(1)     | -            | 1<br>(1)     | -            | 1<br>(1)     | -            | -            | -            | 1<br>(1)     | -            |   |
| -            | 2<br>(3)     | -            | 2<br>(1)     | -            | 15<br>(1)    | -            | 2<br>(2)     | 1<br>(1)     | -           | 1<br>(1)     | -            | 2<br>(1)     | -            | -            | -            | 5<br>(2)     | -            | 2<br>(1)     | -            |   |
| *            | *            | *            | *            | *            | *            | *            | *            | *            | *           | *            | *            | *            | *            | *            | *            | *            | *            | *            | *            | * |
| -            | -            | -            | -            | -            | -            | -            | -            | -            | -           | -            | -            | -            | -            | -            | -            | -            | -            | -            | -            | - |
| 29<br>(1)    | -            | 282<br>(2)   | 15<br>(3)    | 39<br>(2)    | -            | 52<br>(4)    | 17<br>(3)    | 9<br>(1)     | 148<br>(3)  | 38<br>(3)    | 7<br>(3)     | 2<br>(1)     | 11<br>(2)    | 16<br>(1)    | 84<br>(2)    | 16<br>(4)    | 47<br>(5)    | -            | 436<br>(7)   |   |
| 20<br>(1)    | -            | -            | -            | -            | -            | -            | -            | -            | 54<br>(1)   | -            | -            | -            | -            | -            | -            | -            | 16<br>(2)    | -            | -            |   |
| 9<br>(1)     | 26<br>(3)    | 14<br>(2)    | 66<br>(2)    | 9<br>(1)     | 12<br>(4)    | 9<br>(8)     | 15<br>(4)    | 11<br>(4)    | -           | 23<br>(4)    | 82<br>(2)    | 70<br>(4)    | 3<br>(3)     | 52<br>(4)    | 44<br>(7)    | 59<br>(4)    | 16<br>(1)    | 24<br>(3)    | 9<br>(3)     |   |
| -            | -            | -            | -            | -            | -            | -            | -            | -            | -           | 9<br>(1)     | -            | -            | -            | -            | -            | -            | 2<br>(1)     | -            | -            |   |
| -            | -            | -            | -            | -            | -            | 10<br>(1)    | -            | -            | -           | -            | 40<br>(2)    | -            | -            | -            | -            | -            | 22<br>(1)    | -            | -            |   |
| -            | -            | -            | -            | -            | -            | -            | -            | -            | -           | -            | -            | -            | -            | -            | -            | -            | 22<br>(1)    | -            | -            |   |
| 10<br>(2)    | 70<br>(1)    | -            | -            | -            | -            | 25<br>(2)    | -            | 56<br>(2)    | -           | -            | 80<br>(3)    | -            | 22<br>(3)    | -            | 80<br>(1)    | -            | 31<br>(2)    | -            | 41<br>(2)    |   |
| -            | -            | -            | -            | -            | 19<br>(1)    | -            | -            | -            | 100<br>(1)  | -            | 4<br>(1)     | -            | -            | -            | -            | -            | -            | 78<br>(2)    | -            |   |
| 39<br>(2)    | -            | 27<br>(1)    | -            | -            | -            | 37<br>(1)    | -            | -            | -           | -            | 1426<br>(3)  | -            | -            | -            | -            | -            | -            | -            | 34<br>(1)    |   |

Table 1 Cont.

| TAXON                            | STATION      |              |              |              |             |             |              |              |              |              |              |              |              |              |
|----------------------------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                  | 784<br>(23)  | 824<br>(12)  | 864<br>(24)  | 874<br>(18)  | 906<br>(23) | 917<br>(12) | 961<br>(21)  | 1007<br>(13) | 1053<br>(18) | 1068<br>(17) | 1100<br>(12) | 1116<br>(14) | 1165<br>(31) | 1216<br>(12) |
| <i>Acartia clausi</i>            | 873<br>(9)   | 95<br>(6)    | 311<br>(8)   | 1868<br>(13) | 207<br>(6)  | 1882<br>(9) | 1558<br>(10) | 104<br>(9)   | 4128<br>(7)  | 4768<br>(14) | 34<br>(5)    | 644<br>(9)   | 930<br>(18)  | 3772<br>(4)  |
| <i>Acartia longiremis</i>        | 506<br>(7)   | 27<br>(1)    | 2633<br>(12) | 40<br>(2)    | 50<br>(14)  | 55<br>(1)   | 130<br>(7)   | -            | 53<br>(6)    | -            | 5<br>(5)     | -            | 4367<br>(13) | 18<br>(4)    |
| <i>Acartia pacifica</i>          | -            | -            | -            | -            | -           | -           | 65<br>(2)    | -            | 1<br>(1)     | -            | -            | -            | 262<br>(2)   | -            |
| <i>Caligus clemensi</i>          | -            | -            | -            | 1<br>(1)     | -           | -           | -            | -            | -            | -            | -            | -            | -            | -            |
| <i>Candacia bipinnata</i>        | 176<br>(4)   | 43<br>(6)    | 65<br>(7)    | -            | 281<br>(5)  | 1<br>(1)    | 37<br>(3)    | 19<br>(1)    | 165<br>(5)   | 9<br>(1)     | 50<br>(2)    | 43<br>(5)    | 32<br>(6)    | 85<br>(4)    |
| <i>Calanus cristatus</i>         | 16<br>(2)    | 14<br>(1)    | 85<br>(8)    | -            | 69<br>(8)   | 17<br>(2)   | 13<br>(3)    | 58<br>(5)    | 58<br>(5)    | -            | 77<br>(4)    | 62<br>(1)    | 23<br>(10)   | 52<br>(4)    |
| <i>Calanus pacificus</i>         | 4424<br>(20) | 1021<br>(11) | 807<br>(22)  | 168<br>(5)   | 669<br>(16) | 201<br>(8)  | 2089<br>(16) | 664<br>(13)  | 2184<br>(18) | 125<br>(7)   | 1128<br>(9)  | 1468<br>(13) | 2457<br>(27) | 448<br>(10)  |
| <i>Calanus tenuicornis</i>       | 385<br>(14)  | 183<br>(4)   | 250<br>(14)  | 127<br>(5)   | 215<br>(7)  | 82<br>(5)   | 652<br>(8)   | 357<br>(5)   | 588<br>(12)  | 81<br>(6)    | 177<br>(8)   | 1550<br>(5)  | 409<br>(17)  | 286<br>(7)   |
| <i>Centropages abdominalis</i>   | 59<br>(3)    | 88<br>(1)    | 9<br>(1)     | 41<br>(4)    | 80<br>(5)   | 62<br>(4)   | 21<br>(3)    | 44<br>(1)    | 562<br>(3)   | 19<br>(3)    | 174<br>(1)   | 78<br>(2)    | 24<br>(7)    | 21<br>(5)    |
| <i>Corycaeus sp.</i>             | 22<br>(3)    | 9<br>(1)     | 27<br>(3)    | 114<br>(4)   | 26<br>(2)   | 97<br>(4)   | 131<br>(4)   | 21<br>(3)    | 132<br>(2)   | 8<br>(1)     | 58<br>(2)    | 36<br>(3)    | 42<br>(6)    | 18<br>(3)    |
| <i>Epilabidocera longipedata</i> | 46<br>(8)    | -            | 2<br>(1)     | 184<br>(9)   | -           | 497<br>(2)  | 114<br>(12)  | 14<br>(3)    | -            | 159<br>(12)  | -            | 41<br>(6)    | 24<br>(7)    | 118<br>(1)   |
| <i>Eucalanus bungii</i>          | 33<br>(10)   | 190<br>(1)   | 182<br>(14)  | 29<br>(1)    | 244<br>(11) | 1<br>(1)    | 22<br>(5)    | 424<br>(5)   | 195<br>(12)  | 31<br>(1)    | 130<br>(6)   | 83<br>(4)    | 136<br>(19)  | 82<br>(9)    |
| <i>Euchaeta acuta</i>            | -            | -            | -            | -            | -           | -           | -            | -            | -            | -            | -            | 156<br>(1)   | -            | -            |
| <i>Euchaeta japonica</i>         | 22<br>(1)    | -            | -            | -            | 3<br>(1)    | -           | -            | -            | 1<br>(3)     | -            | -            | -            | 1<br>(1)     | -            |

STATION

|                      |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| $\frac{1241}{(27)}$  | $\frac{1274}{(23)}$ | $\frac{1299}{(19)}$ | $\frac{1332}{(12)}$ | $\frac{1357}{(11)}$ | $\frac{1390}{(23)}$ | $\frac{1414}{(22)}$ | $\frac{1472}{(12)}$ | $\frac{1529}{(23)}$ | $\frac{1552}{(9)}$ | $\frac{1584}{(12)}$ | $\frac{1607}{(23)}$ | $\frac{1639}{(14)}$ | $\frac{1660}{(25)}$ | $\frac{1709}{(12)}$ | $\frac{1757}{(24)}$ | $\frac{1804}{(14)}$ | $\frac{1819}{(22)}$ | $\frac{1851}{(25)}$ | $\frac{1865}{(22)}$ |
| $\frac{15609}{(17)}$ | $\frac{375}{(8)}$   | $\frac{1228}{(13)}$ | $\frac{863}{(5)}$   | $\frac{815}{(10)}$  | $\frac{268}{(10)}$  | $\frac{4185}{(10)}$ | $\frac{1697}{(2)}$  | $\frac{1162}{(10)}$ | $\frac{1735}{(7)}$ | $\frac{31}{(6)}$    | $\frac{1245}{(15)}$ | $\frac{50}{(8)}$    | $\frac{1648}{(10)}$ | $\frac{942}{(9)}$   | $\frac{501}{(17)}$  | $\frac{76}{(6)}$    | $\frac{963}{(15)}$  | $\frac{353}{(10)}$  | $\frac{2952}{(18)}$ |
| $\frac{55}{(1)}$     | $\frac{120}{(13)}$  | $\frac{113}{(2)}$   | $\frac{1140}{(5)}$  | -                   | $\frac{185}{(1)}$   | $\frac{2364}{(11)}$ | $\frac{247}{(2)}$   | $\frac{365}{(12)}$  | -                  | $\frac{36}{(4)}$    | $\frac{53}{(4)}$    | $\frac{94}{(5)}$    | $\frac{825}{(8)}$   | $\frac{38}{(4)}$    | $\frac{343}{(10)}$  | $\frac{20}{(2)}$    | $\frac{33}{(3)}$    | $\frac{459}{(5)}$   | $\frac{100}{(5)}$   |
| $\frac{5}{(1)}$      | -                   | -                   | -                   | -                   | -                   | $\frac{205}{(4)}$   | -                   | -                   | -                  | -                   | -                   | $\frac{34}{(2)}$    | $\frac{486}{(2)}$   | -                   | -                   | -                   | $\frac{111}{(1)}$   | -                   | -                   |
| -                    | -                   | $\frac{5}{(1)}$     | -                   | -                   | -                   | -                   | -                   | -                   | -                  | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   |
| $\frac{9}{(1)}$      | $\frac{66}{(3)}$    | -                   | $\frac{17}{(3)}$    | $\frac{19}{(2)}$    | $\frac{158}{(2)}$   | $\frac{64}{(5)}$    | $\frac{42}{(4)}$    | $\frac{40}{(6)}$    | -                  | $\frac{87}{(1)}$    | $\frac{203}{(5)}$   | $\frac{160}{(2)}$   | $\frac{61}{(2)}$    | $\frac{22}{(3)}$    | $\frac{80}{(2)}$    | $\frac{116}{(4)}$   | $\frac{47}{(1)}$    | $\frac{28}{(2)}$    | -                   |
| $\frac{44}{(1)}$     | $\frac{9}{(5)}$     | $\frac{14}{(2)}$    | $\frac{21}{(3)}$    | $\frac{39}{(1)}$    | $\frac{28}{(9)}$    | $\frac{34}{(9)}$    | $\frac{5}{(3)}$     | $\frac{5}{(6)}$     | -                  | $\frac{21}{(2)}$    | $\frac{94}{(2)}$    | $\frac{15}{(4)}$    | $\frac{16}{(8)}$    | $\frac{18}{(1)}$    | $\frac{10}{(4)}$    | $\frac{186}{(2)}$   | -                   | $\frac{29}{(5)}$    | -                   |
| $\frac{492}{(13)}$   | $\frac{679}{(18)}$  | $\frac{204}{(13)}$  | $\frac{344}{(9)}$   | $\frac{405}{(10)}$  | $\frac{920}{(15)}$  | $\frac{9268}{(21)}$ | $\frac{675}{(11)}$  | $\frac{916}{(17)}$  | $\frac{86}{(4)}$   | $\frac{654}{(11)}$  | $\frac{1017}{(20)}$ | $\frac{274}{(13)}$  | $\frac{3825}{(22)}$ | $\frac{345}{(11)}$  | $\frac{1486}{(22)}$ | $\frac{6111}{(10)}$ | $\frac{1277}{(13)}$ | $\frac{527}{(19)}$  | $\frac{667}{(18)}$  |
| $\frac{37}{(5)}$     | $\frac{174}{(11)}$  | $\frac{81}{(7)}$    | $\frac{204}{(5)}$   | $\frac{37}{(5)}$    | $\frac{300}{(10)}$  | $\frac{629}{(10)}$  | $\frac{188}{(8)}$   | $\frac{173}{(13)}$  | $\frac{27}{(2)}$   | $\frac{150}{(7)}$   | $\frac{347}{(8)}$   | $\frac{83}{(7)}$    | $\frac{424}{(12)}$  | $\frac{174}{(4)}$   | $\frac{349}{(10)}$  | $\frac{64}{(4)}$    | $\frac{51}{(7)}$    | $\frac{136}{(9)}$   | $\frac{91}{(4)}$    |
| $\frac{16}{(2)}$     | $\frac{219}{(1)}$   | $\frac{17}{(3)}$    | $\frac{88}{(1)}$    | $\frac{44}{(1)}$    | $\frac{70}{(2)}$    | $\frac{12}{(4)}$    | $\frac{51}{(3)}$    | $\frac{32}{(2)}$    | $\frac{9}{(1)}$    | $\frac{146}{(1)}$   | $\frac{9}{(3)}$     | $\frac{6}{(2)}$     | $\frac{27}{(3)}$    | $\frac{8}{(1)}$     | -                   | -                   | $\frac{20}{(3)}$    | $\frac{17}{(2)}$    | $\frac{97}{(6)}$    |
| $\frac{385}{(2)}$    | $\frac{64}{(4)}$    | -                   | $\frac{78}{(1)}$    | $\frac{30}{(4)}$    | $\frac{139}{(1)}$   | $\frac{9}{(1)}$     | $\frac{47}{(5)}$    | $\frac{127}{(5)}$   | $\frac{1}{(1)}$    | $\frac{92}{(3)}$    | $\frac{127}{(3)}$   | $\frac{30}{(3)}$    | $\frac{248}{(2)}$   | $\frac{43}{(3)}$    | $\frac{39}{(5)}$    | $\frac{260}{(3)}$   | $\frac{17}{(5)}$    | $\frac{30}{(2)}$    | $\frac{96}{(4)}$    |
| $\frac{150}{(13)}$   | -                   | $\frac{73}{(8)}$    | -                   | $\frac{33}{(5)}$    | -                   | $\frac{31}{(6)}$    | $\frac{1}{(1)}$     | $\frac{15}{(3)}$    | $\frac{155}{(4)}$  | -                   | $\frac{861}{(10)}$  | $\frac{9}{(1)}$     | $\frac{4}{(4)}$     | $\frac{3}{(2)}$     | $\frac{10}{(1)}$    | $\frac{2}{(1)}$     | $\frac{113}{(8)}$   | $\frac{1}{(1)}$     | $\frac{83}{(8)}$    |
| $\frac{38}{(3)}$     | $\frac{81}{(15)}$   | $\frac{1}{(1)}$     | $\frac{95}{(7)}$    | $\frac{10}{(2)}$    | $\frac{81}{(15)}$   | $\frac{100}{(16)}$  | $\frac{49}{(11)}$   | $\frac{72}{(14)}$   | -                  | $\frac{35}{(5)}$    | $\frac{56}{(12)}$   | $\frac{91}{(9)}$    | $\frac{40}{(13)}$   | $\frac{56}{(6)}$    | $\frac{56}{(6)}$    | $\frac{56}{(13)}$   | $\frac{11}{(6)}$    | $\frac{95}{(10)}$   | $\frac{99}{(9)}$    |
| -                    | $\frac{7}{(1)}$     | -                   | -                   | -                   | $\frac{24}{(1)}$    | -                   | -                   | -                   | -                  | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | $\frac{31}{(1)}$    | -                   |
| -                    | $\frac{8}{(1)}$     | -                   | -                   | -                   | -                   | $\frac{8}{(1)}$     | -                   | -                   | -                  | -                   | -                   | $\frac{5}{(1)}$     | -                   | -                   | $\frac{45}{(1)}$    | $\frac{18}{(1)}$    | $\frac{37}{(1)}$    | -                   | $\frac{200}{(1)}$   |

Table 1 Cont.

| TAXON                            | STATION             |                   |                    |                    |                   |                     |                    |                   |                    |                    |                    |                    |                     |                    |
|----------------------------------|---------------------|-------------------|--------------------|--------------------|-------------------|---------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|
|                                  | 784<br>(23)         | 824<br>(12)       | 864<br>(24)        | 874<br>(18)        | 906<br>(23)       | 917<br>(12)         | 961<br>(21)        | 1007<br>(13)      | 1053<br>(18)       | 1068<br>(17)       | 1100<br>(12)       | 1116<br>(14)       | 1165<br>(31)        | 1216<br>(12)       |
| <i>Euchirella</i> sp.            | $\frac{1}{(1)}$     | -                 | $\frac{11}{(3)}$   | -                  | $\frac{4}{(1)}$   | -                   | $\frac{5}{(1)}$    | $\frac{11}{(1)}$  | $\frac{4}{(2)}$    | -                  | -                  | -                  | $\frac{1}{(1)}$     | -                  |
| <i>Euchirella rostrata</i>       | $\frac{60}{(8)}$    | $\frac{16}{(1)}$  | $\frac{19}{(7)}$   | $\frac{2}{(1)}$    | $\frac{11}{(4)}$  | $\frac{8}{(2)}$     | $\frac{2}{(3)}$    | $\frac{145}{(3)}$ | $\frac{43}{(6)}$   | $\frac{1}{(2)}$    | $\frac{46}{(4)}$   | $\frac{26}{(2)}$   | $\frac{55}{(7)}$    | $\frac{34}{(6)}$   |
| <i>Heterorhabdus papilliger</i>  | $\frac{27}{(2)}$    | -                 | $\frac{16}{(3)}$   | $\frac{27}{(1)}$   | $\frac{21}{(2)}$  | $\frac{28}{(1)}$    | -                  | -                 | $\frac{3}{(4)}$    | $\frac{31}{(1)}$   | $\frac{158}{(2)}$  | -                  | $\frac{22}{(6)}$    | $\frac{13}{(8)}$   |
| <i>Metridia lucens</i>           | $\frac{510}{(10)}$  | $\frac{213}{(5)}$ | $\frac{364}{(10)}$ | $\frac{58}{(4)}$   | $\frac{171}{(6)}$ | $\frac{117}{(7)}$   | $\frac{550}{(11)}$ | $\frac{516}{(7)}$ | $\frac{248}{(9)}$  | $\frac{58}{(5)}$   | $\frac{1532}{(4)}$ | $\frac{413}{(6)}$  | $\frac{2444}{(16)}$ | $\frac{453}{(8)}$  |
| <i>Oithona</i> sp.               | $\frac{35}{(5)}$    | $\frac{29}{(2)}$  | $\frac{56}{(3)}$   | $\frac{111}{(7)}$  | $\frac{9}{(5)}$   | $\frac{30}{(4)}$    | $\frac{43}{(6)}$   | $\frac{16}{(3)}$  | $\frac{34}{(8)}$   | $\frac{9}{(3)}$    | $\frac{13}{(4)}$   | $\frac{55}{(2)}$   | $\frac{47}{(12)}$   | $\frac{66}{(7)}$   |
| <i>Oithona spinirostris</i>      | -                   | -                 | -                  | -                  | -                 | -                   | -                  | -                 | -                  | -                  | -                  | -                  | -                   | -                  |
| <i>Pontellopsis occidentalis</i> | $\frac{131}{(1)}$   | $\frac{52}{(1)}$  | -                  | -                  | -                 | $\frac{27}{(1)}$    | $\frac{44}{(1)}$   | $\frac{114}{(2)}$ | $\frac{614}{(1)}$  | -                  | $\frac{20}{(1)}$   | $\frac{178}{(2)}$  | $\frac{81}{(4)}$    | -                  |
| <i>Pseudocalanus</i> sp.         | $\frac{535}{(11)}$  | $\frac{309}{(4)}$ | $\frac{751}{(9)}$  | $\frac{100}{(3)}$  | $\frac{55}{(7)}$  | $\frac{187}{(5)}$   | $\frac{814}{(12)}$ | $\frac{74}{(2)}$  | $\frac{2693}{(5)}$ | $\frac{67}{(5)}$   | -                  | $\frac{337}{(6)}$  | $\frac{186}{(11)}$  | $\frac{48}{(2)}$   |
| <i>Rhincalanus</i> sp.           | $\frac{97}{(6)}$    | $\frac{44}{(4)}$  | $\frac{148}{(7)}$  | $\frac{14}{(2)}$   | $\frac{268}{(4)}$ | $\frac{43}{(4)}$    | $\frac{44}{(1)}$   | $\frac{39}{(8)}$  | $\frac{241}{(8)}$  | $\frac{9}{(1)}$    | $\frac{156}{(7)}$  | $\frac{107}{(3)}$  | $\frac{58}{(10)}$   | $\frac{167}{(8)}$  |
| <i>Scolecithricella minor</i>    | -                   | -                 | $\frac{11}{(1)}$   | -                  | -                 | $\frac{7}{(1)}$     | -                  | -                 | -                  | -                  | -                  | -                  | -                   | -                  |
| <i>Scolecithricella ovata</i>    | -                   | -                 | -                  | -                  | -                 | -                   | -                  | -                 | -                  | -                  | -                  | -                  | -                   | -                  |
| <i>Tortanus discaudatus</i>      | $\frac{2142}{(18)}$ | $\frac{181}{(5)}$ | $\frac{57}{(10)}$  | $\frac{71}{(13)}$  | $\frac{18}{(5)}$  | $\frac{1517}{(10)}$ | $\frac{144}{(18)}$ | $\frac{233}{(8)}$ | $\frac{11}{(3)}$   | $\frac{476}{(15)}$ | -                  | $\frac{735}{(12)}$ | $\frac{674}{(20)}$  | $\frac{87}{(3)}$   |
| Subclass Cirripedia cypris       | $\frac{69}{(6)}$    | $\frac{8}{(2)}$   | $\frac{2}{(7)}$    | $\frac{16}{(2)}$   | $\frac{10}{(6)}$  | $\frac{1}{(3)}$     | $\frac{4}{(5)}$    | $\frac{14}{(3)}$  | $\frac{7}{(6)}$    | $\frac{2}{(1)}$    | $\frac{5}{(2)}$    | $\frac{20}{(2)}$   | $\frac{6}{(9)}$     | $\frac{26}{(3)}$   |
| nauplius                         | $\frac{146}{(5)}$   | $\frac{28}{(1)}$  | $\frac{23}{(1)}$   | $\frac{583}{(11)}$ | $\frac{38}{(1)}$  | $\frac{83}{(3)}$    | $\frac{225}{(4)}$  | $\frac{345}{(1)}$ | $\frac{17}{(3)}$   | $\frac{240}{(11)}$ | -                  | $\frac{1397}{(4)}$ | $\frac{81}{(7)}$    | $\frac{1543}{(2)}$ |



STATION

| 1241<br>(27)        | 1274<br>(23)       | 1299<br>(19)       | 1332<br>(12)      | 1357<br>(11)      | 1390<br>(23)      | 1414<br>(22)        | 1472<br>(12)       | 1529<br>(23)        | 1552<br>(9)       | 1584<br>(12)       | 1607<br>(23)       | 1639<br>(14)       | 1660<br>(25)        | 1709<br>(12)      | 1757<br>(24)       | 1804<br>(14)       | 1819<br>(22)        | 1851<br>(25)       | 1865<br>(22)        |
|---------------------|--------------------|--------------------|-------------------|-------------------|-------------------|---------------------|--------------------|---------------------|-------------------|--------------------|--------------------|--------------------|---------------------|-------------------|--------------------|--------------------|---------------------|--------------------|---------------------|
| -                   | $\frac{2}{(2)}$    | -                  | $\frac{2}{(3)}$   | -                 | $\frac{110}{(1)}$ | $\frac{41}{(2)}$    | $\frac{1}{(2)}$    | -                   | -                 | -                  | -                  | $\frac{2}{(1)}$    | -                   | $\frac{4}{(2)}$   | -                  | -                  | -                   | $\frac{6}{(2)}$    | $\frac{1}{(1)}$     |
| $\frac{106}{(2)}$   | $\frac{31}{(9)}$   | $\frac{11}{(1)}$   | $\frac{9}{(6)}$   | $\frac{39}{(1)}$  | $\frac{60}{(4)}$  | $\frac{123}{(6)}$   | $\frac{24}{(8)}$   | $\frac{86}{(5)}$    | -                 | $\frac{39}{(6)}$   | $\frac{74}{(7)}$   | $\frac{12}{(3)}$   | $\frac{83}{(8)}$    | $\frac{39}{(5)}$  | $\frac{60}{(6)}$   | $\frac{38}{(5)}$   | $\frac{36}{(2)}$    | $\frac{22}{(5)}$   | $\frac{11}{(3)}$    |
| $\frac{18}{(1)}$    | $\frac{9}{(3)}$    | $\frac{124}{(2)}$  | $\frac{92}{(2)}$  | $\frac{11}{(1)}$  | $\frac{31}{(4)}$  | $\frac{28}{(2)}$    | $\frac{47}{(3)}$   | $\frac{21}{(6)}$    | -                 | $\frac{15}{(2)}$   | $\frac{114}{(3)}$  | $\frac{5}{(2)}$    | $\frac{14}{(3)}$    | -                 | $\frac{138}{(3)}$  | $\frac{87}{(1)}$   | $\frac{13}{(3)}$    | $\frac{27}{(2)}$   | $\frac{34}{(2)}$    |
| $\frac{18}{(5)}$    | $\frac{924}{(11)}$ | $\frac{63}{(10)}$  | $\frac{523}{(5)}$ | $\frac{169}{(7)}$ | $\frac{513}{(9)}$ | $\frac{3617}{(14)}$ | $\frac{1583}{(9)}$ | $\frac{1676}{(13)}$ | -                 | $\frac{1214}{(5)}$ | -                  | $\frac{306}{(19)}$ | $\frac{1938}{(15)}$ | $\frac{582}{(7)}$ | $\frac{550}{(11)}$ | $\frac{374}{(2)}$  | $\frac{206}{(12)}$  | $\frac{1894}{(7)}$ | $\frac{135}{(10)}$  |
| $\frac{2630}{(2)}$  | $\frac{14}{(5)}$   | -                  | $\frac{31}{(2)}$  | $\frac{9}{(1)}$   | $\frac{38}{(5)}$  | $\frac{37}{(1)}$    | $\frac{23}{(7)}$   | $\frac{107}{(7)}$   | $\frac{75}{(1)}$  | $\frac{25}{(3)}$   | $\frac{126}{(8)}$  | $\frac{169}{(3)}$  | $\frac{34}{(8)}$    | $\frac{81}{(6)}$  | $\frac{50}{(7)}$   | $\frac{265}{(4)}$  | $\frac{31}{(9)}$    | $\frac{49}{(4)}$   | $\frac{208}{(5)}$   |
| $\frac{1}{(1)}$     | -                  | -                  | -                 | -                 | -                 | -                   | -                  | -                   | -                 | -                  | -                  | -                  | -                   | -                 | -                  | -                  | -                   | -                  | -                   |
| -                   | -                  | -                  | -                 | -                 | $\frac{13}{(1)}$  | -                   | $\frac{165}{(3)}$  | $\frac{14}{(2)}$    | -                 | $\frac{9}{(1)}$    | -                  | -                  | -                   | $\frac{16}{(1)}$  | $\frac{97}{(2)}$   | -                  | -                   | -                  | -                   |
| $\frac{1135}{(5)}$  | $\frac{184}{(10)}$ | $\frac{96}{(13)}$  | $\frac{335}{(1)}$ | $\frac{20}{(3)}$  | $\frac{32}{(7)}$  | $\frac{1771}{(10)}$ | $\frac{153}{(2)}$  | $\frac{790}{(6)}$   | $\frac{2}{(2)}$   | $\frac{186}{(1)}$  | $\frac{113}{(16)}$ | $\frac{10}{(1)}$   | $\frac{604}{(14)}$  | $\frac{763}{(2)}$ | $\frac{882}{(11)}$ | $\frac{2412}{(2)}$ | $\frac{85}{(9)}$    | $\frac{60}{(8)}$   | $\frac{531}{(6)}$   |
| $\frac{22}{(1)}$    | $\frac{170}{(9)}$  | $\frac{9}{(1)}$    | $\frac{139}{(6)}$ | $\frac{11}{(2)}$  | $\frac{162}{(8)}$ | $\frac{160}{(4)}$   | $\frac{249}{(3)}$  | $\frac{74}{(6)}$    | -                 | $\frac{256}{(2)}$  | $\frac{294}{(4)}$  | $\frac{227}{(5)}$  | $\frac{14}{(2)}$    | $\frac{200}{(4)}$ | $\frac{69}{(7)}$   | $\frac{236}{(5)}$  | $\frac{8}{(1)}$     | $\frac{33}{(4)}$   | $\frac{92}{(4)}$    |
| -                   | -                  | -                  | -                 | -                 | $\frac{349}{(1)}$ | -                   | -                  | -                   | -                 | -                  | -                  | $\frac{291}{(1)}$  | -                   | -                 | -                  | -                  | -                   | -                  | -                   |
| -                   | -                  | -                  | -                 | -                 | -                 | -                   | -                  | -                   | -                 | -                  | -                  | -                  | -                   | $\frac{12}{(2)}$  | -                  | -                  | -                   | -                  | -                   |
| $\frac{854}{(15)}$  | $\frac{15}{(7)}$   | $\frac{409}{(17)}$ | $\frac{55}{(3)}$  | $\frac{289}{(8)}$ | $\frac{19}{(6)}$  | $\frac{146}{(11)}$  | $\frac{28}{(5)}$   | $\frac{36}{(10)}$   | $\frac{177}{(3)}$ | $\frac{29}{(2)}$   | $\frac{560}{(20)}$ | -                  | $\frac{416}{(19)}$  | $\frac{462}{(8)}$ | $\frac{24}{(8)}$   | $\frac{4}{(2)}$    | $\frac{1010}{(20)}$ | $\frac{9}{(3)}$    | $\frac{6440}{(22)}$ |
| $\frac{116}{(4)}$   | $\frac{6}{(9)}$    | $\frac{48}{(11)}$  | $\frac{3}{(6)}$   | $\frac{24}{(1)}$  | $\frac{20}{(9)}$  | $\frac{51}{(7)}$    | $\frac{2}{(3)}$    | $\frac{8}{(7)}$     | $\frac{2}{(1)}$   | $\frac{2}{(3)}$    | $\frac{9}{(2)}$    | $\frac{2}{(2)}$    | $\frac{11}{(5)}$    | $\frac{18}{(1)}$  | $\frac{2}{(10)}$   | $\frac{1}{(1)}$    | $\frac{30}{(3)}$    | $\frac{5}{(8)}$    | $\frac{4}{(4)}$     |
| $\frac{2323}{(14)}$ | $\frac{13}{(4)}$   | $\frac{48}{(11)}$  | $\frac{37}{(3)}$  | -                 | $\frac{3}{(2)}$   | $\frac{1}{(2)}$     | $\frac{11}{(4)}$   | $\frac{450}{(4)}$   | -                 | $\frac{7}{(2)}$    | $\frac{307}{(6)}$  | -                  | $\frac{161}{(3)}$   | $\frac{460}{(3)}$ | $\frac{1}{(1)}$    | -                  | $\frac{1183}{(8)}$  | -                  | $\frac{1289}{(6)}$  |

Table 1 Cont.

| TAXON                         | STATION           |                 |                  |                 |                 |                 |                  |                  |                  |                   |                  |                  |                  |                 |
|-------------------------------|-------------------|-----------------|------------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|-----------------|
|                               | 784<br>(23)       | 824<br>(12)     | 864<br>(24)      | 874<br>(18)     | 906<br>(23)     | 917<br>(12)     | 961<br>(21)      | 1007<br>(13)     | 1053<br>(18)     | 1068<br>(17)      | 1100<br>(12)     | 1116<br>(14)     | 1165<br>(31)     | 1216<br>(12)    |
| Subclass Malacostraca         |                   |                 |                  |                 |                 |                 |                  |                  |                  |                   |                  |                  |                  |                 |
| Order Mysidacea               | $\frac{28}{(2)}$  | -               | $\frac{1}{(1)}$  | -               | -               | -               | $\frac{22}{(1)}$ | -                | -                | $\frac{154}{(3)}$ | $\frac{5}{(2)}$  | $\frac{18}{(3)}$ | $\frac{2}{(1)}$  | -               |
| <i>Acanthomysis macropsis</i> | $\frac{4}{(1)}$   | -               | $\frac{1}{(1)}$  | $\frac{1}{(1)}$ | -               | $\frac{1}{(1)}$ | -                | $\frac{1}{(1)}$  | -                | -                 | -                | $\frac{3}{(1)}$  | $\frac{2}{(3)}$  | -               |
| <i>Archaeomysis maculata</i>  | -                 | -               | -                | -               | -               | -               | -                | -                | -                | -                 | -                | -                | -                | -               |
| <i>Neomysis costata</i>       | $\frac{4}{(1)}$   | -               | $\frac{1}{(1)}$  | -               | -               | -               | -                | $\frac{1}{(1)}$  | $\frac{6}{(2)}$  | -                 | -                | -                | $\frac{28}{(3)}$ | -               |
| <i>Neomysis</i> spp.          | $\frac{6}{(4)}$   | -               | $\frac{5}{(1)}$  | -               | -               | -               | $\frac{1}{(1)}$  | $\frac{37}{(1)}$ | $\frac{2}{(1)}$  | -                 | $\frac{13}{(1)}$ | $\frac{1}{(1)}$  | -                | -               |
| Order Cumacea                 | $\frac{195}{(1)}$ | -               | $\frac{23}{(1)}$ | $\frac{1}{(1)}$ | -               | -               | $\frac{2}{(1)}$  | $\frac{37}{(1)}$ | $\frac{6}{(2)}$  | $\frac{78}{(6)}$  | -                | -                | $\frac{44}{(3)}$ | -               |
| <i>Lamprops quadriplicata</i> | $\frac{201}{(2)}$ | -               | -                | -               | -               | -               | -                | $\frac{3}{(1)}$  | $\frac{13}{(1)}$ | -                 | -                | -                | $\frac{54}{(2)}$ | -               |
| Order Isopoda                 | -                 | -               | -                | -               | -               | -               | -                | -                | -                | -                 | -                | -                | -                | -               |
| <i>Idotea</i> sp.             | -                 | -               | -                | -               | -               | -               | -                | -                | -                | -                 | -                | -                | -                | -               |
| <i>Synidotea</i> sp.          | -                 | -               | -                | -               | -               | -               | -                | -                | -                | -                 | -                | -                | -                | -               |
| Order Amphipoda               | -                 | -               | -                | -               | -               | -               | -                | -                | -                | -                 | -                | -                | -                | -               |
| Suborder Gammaridea           | $\frac{44}{(2)}$  | -               | $\frac{2}{(1)}$  | -               | -               | -               | -                | $\frac{6}{(2)}$  | $\frac{1}{(2)}$  | $\frac{9}{(1)}$   | $\frac{19}{(1)}$ | $\frac{9}{(1)}$  | $\frac{57}{(3)}$ | $\frac{4}{(1)}$ |
| <i>Dedicerotidae</i>          | -                 | -               | -                | -               | -               | -               | -                | -                | -                | -                 | -                | $\frac{12}{(1)}$ | -                | -               |
| Suborder Hyperiidea           | $\frac{2}{(5)}$   | $\frac{2}{(2)}$ | $\frac{4}{(5)}$  | $\frac{1}{(1)}$ | $\frac{9}{(2)}$ | $\frac{1}{(1)}$ | $\frac{2}{(1)}$  | $\frac{2}{(3)}$  | $\frac{18}{(3)}$ | $\frac{1}{(1)}$   | $\frac{1}{(1)}$  | -                | $\frac{1}{(2)}$  | -               |

STATION

| 1241<br>(27)      | 1274<br>(23)     | 1299<br>(19)     | 1332<br>(12)    | 1357<br>(11)    | 1390<br>(23)    | 1414<br>(22)      | 1472<br>(12)     | 1529<br>(23)     | 1552<br>(9)     | 1584<br>(12) | 1607<br>(23)     | 1639<br>(14)    | 1660<br>(25)     | 1709<br>(12)      | 1757<br>(24)     | 1804<br>(14)    | 1819<br>(22)     | 1851<br>(25)     | 1865<br>(22)      |
|-------------------|------------------|------------------|-----------------|-----------------|-----------------|-------------------|------------------|------------------|-----------------|--------------|------------------|-----------------|------------------|-------------------|------------------|-----------------|------------------|------------------|-------------------|
| $\frac{23}{(3)}$  | $\frac{7}{(2)}$  | $\frac{11}{(4)}$ | -               | -               | -               | $\frac{1}{(1)}$   | -                | $\frac{1}{(1)}$  | -               | -            | -                | $\frac{1}{(1)}$ | $\frac{6}{(2)}$  | -                 | -                | -               | $\frac{1}{(2)}$  | -                | $\frac{10}{(2)}$  |
| $\frac{6}{(3)}$   | -                | $\frac{1}{(1)}$  | -               | -               | -               | $\frac{1}{(1)}$   | -                | -                | $\frac{7}{(1)}$ | -            | $\frac{1}{(1)}$  | -               | -                | -                 | -                | -               | -                | -                | $\frac{7}{(1)}$   |
| $\frac{5}{(2)}$   | -                | -                | -               | -               | -               | -                 | -                | $\frac{1}{(1)}$  | -               | -            | -                | -               | -                | -                 | -                | -               | -                | -                | -                 |
| $\frac{98}{(4)}$  | $\frac{3}{(1)}$  | -                | -               | -               | -               | $\frac{12}{(2)}$  | $\frac{2}{(1)}$  | $\frac{4}{(2)}$  | -               | -            | $\frac{4}{(1)}$  | $\frac{1}{(1)}$ | $\frac{3}{(1)}$  | $\frac{4}{(1)}$   | -                | -               | -                | -                | $\frac{80}{(1)}$  |
| $\frac{60}{(4)}$  | $\frac{1}{(1)}$  | $\frac{77}{(1)}$ | -               | -               | -               | $\frac{191}{(4)}$ | -                | $\frac{1}{(1)}$  | -               | -            | $\frac{5}{(4)}$  | -               | $\frac{53}{(4)}$ | $\frac{3}{(1)}$   | -                | -               | $\frac{69}{(3)}$ | $\frac{36}{(1)}$ | $\frac{293}{(3)}$ |
| $\frac{201}{(4)}$ | -                | $\frac{36}{(4)}$ | -               | -               | -               | $\frac{23}{(2)}$  | $\frac{3}{(2)}$  | $\frac{12}{(2)}$ | -               | -            | $\frac{22}{(2)}$ | -               | $\frac{82}{(1)}$ | $\frac{105}{(1)}$ | $\frac{15}{(1)}$ | -               | -                | -                | $\frac{22}{(4)}$  |
| -                 | $\frac{3}{(1)}$  | -                | -               | -               | -               | $\frac{101}{(1)}$ | -                | $\frac{4}{(2)}$  | -               | -            | -                | -               | $\frac{87}{(2)}$ | -                 | -                | -               | -                | $\frac{10}{(1)}$ | -                 |
| -                 | -                | -                | -               | -               | -               | -                 | -                | -                | -               | -            | -                | -               | -                | -                 | -                | -               | -                | -                | -                 |
| $\frac{2}{(1)}$   | -                | -                | -               | -               | -               | -                 | -                | -                | -               | -            | -                | -               | -                | -                 | -                | -               | -                | -                | -                 |
| $\frac{9}{(1)}$   | -                | -                | -               | -               | -               | -                 | -                | -                | -               | -            | -                | -               | -                | -                 | -                | -               | -                | -                | -                 |
| -                 | $\frac{8}{(1)}$  | -                | -               | -               | -               | -                 | -                | -                | -               | -            | -                | -               | -                | -                 | -                | -               | -                | -                | -                 |
| $\frac{69}{(4)}$  | $\frac{42}{(1)}$ | $\frac{1}{(2)}$  | $\frac{2}{(1)}$ | $\frac{1}{(1)}$ | -               | $\frac{9}{(2)}$   | $\frac{8}{(2)}$  | $\frac{2}{(2)}$  | $\frac{8}{(2)}$ | -            | $\frac{2}{(1)}$  | $\frac{1}{(1)}$ | -                | $\frac{28}{(2)}$  | $\frac{3}{(3)}$  | -               | $\frac{1}{(1)}$  | -                | $\frac{38}{(2)}$  |
| -                 | -                | -                | -               | -               | -               | -                 | -                | -                | -               | -            | -                | -               | -                | $\frac{5}{(1)}$   | -                | -               | -                | -                | -                 |
| -                 | $\frac{2}{(3)}$  | -                | $\frac{2}{(2)}$ | $\frac{8}{(5)}$ | $\frac{3}{(3)}$ | $\frac{1}{(3)}$   | $\frac{12}{(2)}$ | $\frac{3}{(4)}$  | -               | -            | $\frac{1}{(2)}$  | -               | -                | -                 | $\frac{18}{(7)}$ | $\frac{6}{(5)}$ | $\frac{2}{(2)}$  | $\frac{14}{(6)}$ | $\frac{1}{(1)}$   |

Table 1 Cont.

| TAXON                          | STATION            |                   |                   |                   |                   |                   |                    |                   |                   |                   |                   |                   |                    |                   |
|--------------------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|-------------------|
|                                | 784<br>(23)        | 824<br>(12)       | 864<br>(24)       | 874<br>(18)       | 906<br>(23)       | 917<br>(12)       | 961<br>(21)        | 1007<br>(13)      | 1053<br>(18)      | 1068<br>(17)      | 1100<br>(12)      | 1116<br>(14)      | 1165<br>(31)       | 1216<br>(12)      |
| <i>Paraphronima gracilis</i>   | -                  | -                 | $\frac{1}{(1)}$   | -                 | -                 | -                 | -                  | -                 | -                 | -                 | -                 | -                 | $\frac{4}{(2)}$    | -                 |
| <i>Parathemisto pacifica</i>   | $\frac{6}{(3)}$    | -                 | $\frac{10}{(8)}$  | -                 | $\frac{8}{(4)}$   | $\frac{9}{(1)}$   | $\frac{14}{(1)}$   | $\frac{1}{(2)}$   | $\frac{32}{(3)}$  | -                 | $\frac{1}{(1)}$   | $\frac{23}{(2)}$  | $\frac{3}{(8)}$    | $\frac{60}{2}$    |
| <i>Phronima sedentaria</i>     | -                  | -                 | -                 | -                 | -                 | -                 | -                  | -                 | $\frac{2}{(1)}$   | -                 | $\frac{1}{(1)}$   | -                 | -                  | -                 |
| <i>Phronimopsis spinifera</i>  | -                  | -                 | -                 | -                 | -                 | -                 | -                  | -                 | -                 | -                 | $\frac{25}{(1)}$  | -                 | $\frac{1}{(2)}$    | -                 |
| <i>Prinno macropa</i>          | -                  | -                 | $\frac{2}{(4)}$   | -                 | $\frac{1}{(1)}$   | -                 | -                  | $\frac{1}{(1)}$   | $\frac{1}{(1)}$   | -                 | $\frac{1}{(1)}$   | -                 | -                  | -                 |
| <i>Scina borealis</i>          | $\frac{14}{(1)}$   | -                 | -                 | -                 | -                 | $\frac{2}{(1)}$   | -                  | -                 | $\frac{2}{(2)}$   | $\frac{2}{(1)}$   | $\frac{2}{(2)}$   | -                 | $\frac{9}{(1)}$    | -                 |
| <i>Streetsia challengerii</i>  | -                  | -                 | -                 | -                 | -                 | -                 | -                  | -                 | $\frac{11}{(1)}$  | -                 | -                 | -                 | -                  | -                 |
| <i>Vibilia</i> spp.            | -                  | -                 | -                 | -                 | -                 | -                 | -                  | $\frac{1}{(1)}$   | -                 | -                 | -                 | -                 | -                  | -                 |
| Order Euphausiacea             | $\frac{53}{(2)}$   | -                 | -                 | -                 | $\frac{6}{(1)}$   | $\frac{9}{(1)}$   | $\frac{87}{(1)}$   | -                 | $\frac{9}{(1)}$   | -                 | -                 | -                 | $\frac{11}{(6)}$   | $\frac{6}{(1)}$   |
| calyptopis                     | $\frac{46}{(7)}$   | $\frac{33}{(1)}$  | $\frac{16}{(5)}$  | $\frac{591}{(2)}$ | $\frac{79}{(4)}$  | $\frac{104}{(4)}$ | $\frac{134}{(6)}$  | $\frac{118}{(6)}$ | $\frac{42}{(6)}$  | $\frac{106}{(3)}$ | $\frac{32}{(3)}$  | $\frac{192}{(7)}$ | $\frac{84}{(13)}$  | $\frac{175}{(8)}$ |
| furcilia                       | $\frac{152}{(15)}$ | $\frac{80}{(10)}$ | $\frac{36}{(14)}$ | $\frac{221}{(3)}$ | $\frac{158}{(7)}$ | $\frac{169}{(5)}$ | $\frac{122}{(12)}$ | $\frac{74}{(10)}$ | $\frac{65}{(12)}$ | $\frac{30}{(4)}$  | $\frac{45}{(5)}$  | $\frac{429}{(5)}$ | $\frac{175}{(15)}$ | $\frac{41}{(7)}$  |
| juveniles                      | $\frac{26}{(2)}$   | -                 | $\frac{160}{(3)}$ | -                 | $\frac{463}{(4)}$ | -                 | $\frac{9}{(1)}$    | -                 | $\frac{58}{(2)}$  | -                 | $\frac{283}{(4)}$ | $\frac{62}{(5)}$  | $\frac{58}{(6)}$   | $\frac{331}{(5)}$ |
| <i>Euphausia pacifica</i>      | $\frac{9}{(2)}$    | $\frac{9}{(1)}$   | -                 | -                 | $\frac{1}{(3)}$   | $\frac{9}{(1)}$   | $\frac{14}{(2)}$   | $\frac{5}{(2)}$   | $\frac{3}{(1)}$   | -                 | $\frac{1}{(1)}$   | -                 | $\frac{1}{(1)}$    | $\frac{1}{(1)}$   |
| <i>Nematoscelis difficilis</i> | -                  | -                 | -                 | -                 | -                 | -                 | -                  | -                 | -                 | -                 | $\frac{26}{(2)}$  | -                 | -                  | -                 |

STATION

| 1241<br>(27)     | 1274<br>(23)      | 1299<br>(19)     | 1332<br>(12)      | 1357<br>(11)     | 1390<br>(23)      | 1414<br>(22)       | 1472<br>(12)      | 1529<br>(23)      | 1552<br>(9)      | 1584<br>(12)     | 1607<br>(23)       | 1639<br>(14)     | 1660<br>(25)       | 1709<br>(12)      | 1757<br>(24)       | 1804<br>(14)      | 1819<br>(22)     | 1851<br>(25)     | 1865<br>(22)     |   |
|------------------|-------------------|------------------|-------------------|------------------|-------------------|--------------------|-------------------|-------------------|------------------|------------------|--------------------|------------------|--------------------|-------------------|--------------------|-------------------|------------------|------------------|------------------|---|
| -                | -                 | -                | -                 | -                | $\frac{2}{(2)}$   | $\frac{1}{(1)}$    | -                 | $\frac{1}{(1)}$   | -                | -                | $\frac{1}{(1)}$    | $\frac{1}{(2)}$  | -                  | -                 | -                  | -                 | -                | -                | $\frac{6}{(4)}$  | - |
| $\frac{9}{(1)}$  | $\frac{3}{(8)}$   | -                | -                 | -                | $\frac{1}{(1)}$   | $\frac{7}{(9)}$    | $\frac{2}{(2)}$   | $\frac{21}{(5)}$  | -                | $\frac{2}{(3)}$  | $\frac{1}{(1)}$    | $\frac{5}{(3)}$  | $\frac{3}{(5)}$    | $\frac{2}{(1)}$   | $\frac{4}{(7)}$    | $\frac{7}{(2)}$   | $\frac{3}{(1)}$  | $\frac{37}{(5)}$ | -                |   |
| -                | -                 | -                | -                 | -                | $\frac{1}{(1)}$   | -                  | $\frac{1}{(1)}$   | $\frac{1}{(1)}$   | -                | -                | -                  | -                | -                  | -                 | -                  | $\frac{14}{(1)}$  | -                | $\frac{1}{(1)}$  | -                |   |
| -                | $\frac{1}{(1)}$   | -                | $\frac{1}{(1)}$   | -                | $\frac{1}{(1)}$   | -                  | $\frac{2}{(3)}$   | -                 | -                | -                | $\frac{4}{(1)}$    | $\frac{1}{(1)}$  | -                  | -                 | -                  | -                 | -                | -                | $\frac{6}{(4)}$  | - |
| -                | $\frac{1}{(2)}$   | -                | $\frac{1}{(3)}$   | -                | $\frac{7}{(5)}$   | $\frac{1}{(2)}$    | $\frac{2}{(3)}$   | $\frac{1}{(1)}$   | -                | -                | $\frac{1}{(1)}$    | $\frac{1}{(3)}$  | -                  | -                 | -                  | -                 | $\frac{1}{(1)}$  | -                | $\frac{12}{(2)}$ | - |
| -                | -                 | -                | $\frac{1}{(1)}$   | -                | $\frac{1}{(1)}$   | -                  | -                 | $\frac{1}{(2)}$   | -                | -                | -                  | -                | -                  | -                 | $\frac{20}{(1)}$   | $\frac{13}{(1)}$  | -                | $\frac{1}{(1)}$  | -                |   |
| -                | -                 | -                | -                 | -                | -                 | -                  | -                 | -                 | -                | -                | -                  | $\frac{1}{(1)}$  | -                  | -                 | $\frac{2}{(1)}$    | -                 | -                | $\frac{1}{(1)}$  | -                |   |
| -                | -                 | -                | -                 | -                | -                 | -                  | -                 | -                 | -                | $\frac{1}{(1)}$  | -                  | -                | -                  | -                 | -                  | -                 | -                | -                | -                |   |
| -                | $\frac{9}{(1)}$   | -                | -                 | $\frac{1}{(1)}$  | -                 | $\frac{6}{(2)}$    | $\frac{87}{(1)}$  | $\frac{6}{(3)}$   | -                | -                | $\frac{16}{(5)}$   | $\frac{38}{(1)}$ | $\frac{7}{(1)}$    | -                 | $\frac{29}{(1)}$   | -                 | $\frac{83}{(2)}$ | $\frac{1}{(1)}$  | -                |   |
| $\frac{32}{(2)}$ | $\frac{13}{(4)}$  | $\frac{24}{(3)}$ | $\frac{29}{(3)}$  | $\frac{22}{(5)}$ | $\frac{31}{(4)}$  | $\frac{587}{(5)}$  | $\frac{79}{(6)}$  | $\frac{39}{(4)}$  | -                | $\frac{13}{(6)}$ | $\frac{191}{(8)}$  | $\frac{25}{(4)}$ | $\frac{157}{(9)}$  | $\frac{238}{(5)}$ | $\frac{24}{(7)}$   | $\frac{14}{(4)}$  | $\frac{33}{(3)}$ | $\frac{63}{(6)}$ | -                |   |
| $\frac{11}{(4)}$ | $\frac{39}{(11)}$ | $\frac{14}{(4)}$ | $\frac{16}{(5)}$  | $\frac{30}{(9)}$ | $\frac{36}{(7)}$  | $\frac{231}{(15)}$ | $\frac{54}{(7)}$  | $\frac{275}{(9)}$ | $\frac{12}{(1)}$ | $\frac{87}{(2)}$ | $\frac{302}{(12)}$ | $\frac{32}{(5)}$ | $\frac{313}{(12)}$ | $\frac{486}{(4)}$ | $\frac{132}{(13)}$ | $\frac{83}{(6)}$  | $\frac{24}{(7)}$ | $\frac{22}{(9)}$ | $\frac{97}{(5)}$ |   |
| -                | $\frac{72}{(3)}$  | $\frac{43}{(1)}$ | $\frac{113}{(1)}$ | $\frac{26}{(1)}$ | -                 | $\frac{19}{(1)}$   | $\frac{110}{(5)}$ | $\frac{47}{(2)}$  | $\frac{12}{(1)}$ | $\frac{54}{(2)}$ | $\frac{14}{(2)}$   | -                | $\frac{25}{(4)}$   | $\frac{44}{(31)}$ | $\frac{80}{(4)}$   | $\frac{959}{(1)}$ | $\frac{88}{(1)}$ | -                | -                |   |
| -                | -                 | -                | -                 | $\frac{28}{(1)}$ | $\frac{121}{(1)}$ | $\frac{1}{(1)}$    | -                 | $\frac{4}{(3)}$   | -                | -                | $\frac{87}{(1)}$   | $\frac{1}{(2)}$  | $\frac{1}{(1)}$    | $\frac{1}{(1)}$   | $\frac{343}{(3)}$  | $\frac{261}{(2)}$ | $\frac{88}{(1)}$ | $\frac{29}{(5)}$ | -                |   |
| -                | -                 | -                | -                 | -                | $\frac{1}{(1)}$   | -                  | -                 | -                 | -                | -                | -                  | -                | -                  | -                 | -                  | -                 | -                | -                | -                |   |

Table 1 Cont.

| TAXON  | STATION           |                   |                  |                   |                   |                   |                   |                   |                   |                   |                  |                   |                    |                  |
|--|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|--------------------|------------------|
|  | 784<br>(23)       | 824<br>(12)       | 864<br>(24)      | 874<br>(18)       | 906<br>(23)       | 917<br>(12)       | 961<br>(21)       | 1007<br>(13)      | 1053<br>(18)      | 1068<br>(17)      | 1100<br>(12)     | 1116<br>(14)      | 1165<br>(31)       | 1216<br>(12)     |
| <i>Nyctiphanes simplex</i>                               | $\frac{153}{(2)}$ | $\frac{4}{(2)}$   | $\frac{4}{(1)}$  | -                 | $\frac{119}{(1)}$ | -                 | -                 | $\frac{4}{(2)}$   | $\frac{71}{(3)}$  | -                 | $\frac{31}{(3)}$ | -                 | $\frac{12}{(5)}$   | $\frac{3}{(1)}$  |
| <i>Stylocheiron affine</i>                               | -                 | -                 | -                | -                 | $\frac{18}{(1)}$  | -                 | $\frac{22}{(2)}$  | $\frac{1}{(1)}$   | -                 | -                 | -                | -                 | $\frac{1}{(2)}$    | -                |
| <i>Stylocheiron longicorne</i>                           | -                 | -                 | -                | -                 | $\frac{1}{(1)}$   | -                 | $\frac{10}{(1)}$  | -                 | -                 | -                 | $\frac{10}{(3)}$ | -                 | -                  | -                |
| <i>Thysanoessa gregaria</i>                              | $\frac{5}{(2)}$   | -                 | $\frac{3}{(3)}$  | -                 | $\frac{39}{(4)}$  | $\frac{28}{(1)}$  | $\frac{44}{(1)}$  | $\frac{4}{(3)}$   | -                 | -                 | $\frac{1}{(2)}$  | -                 | $\frac{3}{(1)}$    | $\frac{15}{(1)}$ |
| <i>Thysanoessa longipes</i>                              | -                 | -                 | $\frac{22}{(4)}$ | $\frac{6}{(1)}$   | $\frac{12}{(5)}$  | $\frac{1}{(1)}$   | -                 | $\frac{25}{(1)}$  | $\frac{10}{(1)}$  | $\frac{2}{(1)}$   | $\frac{25}{(4)}$ | $\frac{11}{(2)}$  | $\frac{2}{(4)}$    | $\frac{38}{(4)}$ |
| <i>Thysanoessa spinifera</i>                             | $\frac{52}{(2)}$  | $\frac{1}{(1)}$   | $\frac{55}{(5)}$ | -                 | $\frac{7}{(5)}$   | -                 | $\frac{2}{(1)}$   | $\frac{18}{(2)}$  | $\frac{7}{(4)}$   | -                 | $\frac{18}{(5)}$ | -                 | $\frac{33}{(4)}$   | $\frac{9}{(1)}$  |
| Order Decapoda<br>Section Caridea<br><i>Crangon</i> spp. | -                 | -                 | -                | $\frac{468}{(1)}$ | -                 | $\frac{11}{(1)}$  | $\frac{11}{(1)}$  | $\frac{9}{(1)}$   | -                 | -                 | -                | $\frac{303}{(2)}$ | $\frac{37}{(3)}$   | -                |
| Hippolytidae<br>(larvae)                                 | $\frac{92}{(2)}$  | -                 | $\frac{3}{(2)}$  | $\frac{22}{(2)}$  | $\frac{1}{(1)}$   | $\frac{11}{(1)}$  | $\frac{39}{(3)}$  | $\frac{5}{(3)}$   | $\frac{4}{(1)}$   | $\frac{24}{(3)}$  | -                | $\frac{36}{(4)}$  | $\frac{70}{(5)}$   | $\frac{36}{(2)}$ |
| <i>Pandalus</i> spp.<br>(larvae)                         | -                 | $\frac{33}{(1)}$  | $\frac{12}{(2)}$ | $\frac{41}{(3)}$  | -                 | $\frac{2}{(1)}$   | -                 | $\frac{7}{(2)}$   | $\frac{22}{(1)}$  | $\frac{10}{(1)}$  | $\frac{1}{(1)}$  | $\frac{31}{(1)}$  | $\frac{31}{(7)}$   | $\frac{17}{(1)}$ |
| Section Penaeidea<br><i>Sergestes</i>                    | $\frac{19}{(4)}$  | $\frac{18}{(2)}$  | $\frac{14}{(3)}$ | -                 | $\frac{268}{(2)}$ | -                 | -                 | $\frac{6}{(1)}$   | $\frac{163}{(4)}$ | -                 | $\frac{31}{(3)}$ | $\frac{1}{(1)}$   | $\frac{45}{(5)}$   | $\frac{78}{(2)}$ |
| Section Macrura<br><i>Callinassa</i> spp.<br>(larvae)    | $\frac{215}{(9)}$ | $\frac{135}{(5)}$ | -                | $\frac{155}{(4)}$ | -                 | $\frac{114}{(5)}$ | $\frac{358}{(6)}$ | $\frac{696}{(4)}$ | $\frac{222}{(6)}$ | $\frac{158}{(4)}$ | -                | $\frac{567}{(8)}$ | $\frac{208}{(12)}$ | $\frac{69}{(4)}$ |
| <i>Upogebia pugettensis</i><br>(larvae)                  | $\frac{99}{(2)}$  | $\frac{19}{(1)}$  | -                | $\frac{49}{(3)}$  | -                 | $\frac{74}{(3)}$  | -                 | $\frac{9}{(1)}$   | -                 | $\frac{198}{(3)}$ | -                | $\frac{53}{(3)}$  | $\frac{38}{(2)}$   | -                |
| Section Anomura<br>Galatheidae<br>(larvae)               | -                 | -                 | -                | -                 | -                 | -                 | -                 | -                 | -                 | -                 | -                | -                 | -                  | -                |
| Hippidea (larvae)  | $\frac{2}{(2)}$   | -                 | -                | $\frac{2}{(2)}$   | -                 | $\frac{1}{(1)}$   | $\frac{2}{(2)}$   | $\frac{1}{(1)}$   | $\frac{2}{(1)}$   | -                 | -                | $\frac{1}{(1)}$   | -                  | -                |

STATION

| 1241<br>(27)       | 1274<br>(23)      | 1299<br>(19)      | 1332<br>(12)     | 1357<br>(11)      | 1390<br>(23)      | 1414<br>(22)      | 1472<br>(12)      | 1529<br>(23)      | 1552<br>(9)      | 1584<br>(12)      | 1607<br>(23)      | 1639<br>(14)     | 1660<br>(25)      | 1709<br>(12)      | 1757<br>(24)     | 1804<br>(14)     | 1819<br>(22)      | 1851<br>(25)     | 1865<br>(22)      |
|--------------------|-------------------|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|-------------------|-------------------|------------------|-------------------|-------------------|------------------|------------------|-------------------|------------------|-------------------|
| -                  | $\frac{2}{(1)}$   | -                 | $\frac{16}{(1)}$ | -                 | -                 | $\frac{11}{(3)}$  | $\frac{2}{(1)}$   | $\frac{11}{(2)}$  | -                | $\frac{1}{(1)}$   | $\frac{4}{(1)}$   | $\frac{1}{(1)}$  | $\frac{155}{(4)}$ | $\frac{6}{(2)}$   | $\frac{3}{(2)}$  | -                | -                 | -                | -                 |
| -                  | $\frac{1}{(1)}$   | -                 | -                | -                 | $\frac{3}{(2)}$   | -                 | -                 | $\frac{2}{(1)}$   | -                | $\frac{1}{(1)}$   | -                 | -                | -                 | -                 | $\frac{9}{(1)}$  | $\frac{37}{(1)}$ | $\frac{22}{(1)}$  | $\frac{47}{(1)}$ | -                 |
| -                  | -                 | -                 | -                | -                 | -                 | $\frac{1}{(1)}$   | -                 | -                 | -                | $\frac{1}{(1)}$   | -                 | -                | -                 | -                 | -                | -                | -                 | $\frac{1}{(2)}$  | -                 |
| -                  | $\frac{8}{(2)}$   | $\frac{61}{(2)}$  | -                | -                 | $\frac{10}{(2)}$  | $\frac{5}{(2)}$   | $\frac{19}{(2)}$  | $\frac{14}{(2)}$  | -                | $\frac{1}{(1)}$   | $\frac{1}{(1)}$   | $\frac{1}{(1)}$  | -                 | $\frac{9}{(2)}$   | $\frac{9}{(1)}$  | $\frac{1}{(2)}$  | $\frac{69}{(2)}$  | $\frac{3}{(3)}$  | -                 |
| -                  | $\frac{74}{(6)}$  | -                 | $\frac{6}{(3)}$  | -                 | $\frac{32}{(6)}$  | -                 | $\frac{78}{(2)}$  | $\frac{9}{(1)}$   | -                | $\frac{10}{(3)}$  | $\frac{17}{(1)}$  | $\frac{39}{(7)}$ | $\frac{15}{(3)}$  | $\frac{19}{(1)}$  | $\frac{15}{(2)}$ | -                | $\frac{1}{(1)}$   | $\frac{37}{(3)}$ | -                 |
| -                  | $\frac{18}{(4)}$  | -                 | $\frac{31}{(2)}$ | -                 | $\frac{74}{(4)}$  | $\frac{19}{(4)}$  | $\frac{10}{(1)}$  | $\frac{48}{(3)}$  | -                | $\frac{3}{(3)}$   | -                 | $\frac{10}{(2)}$ | $\frac{84}{(5)}$  | -                 | $\frac{19}{(5)}$ | $\frac{43}{(2)}$ | -                 | $\frac{1}{(5)}$  | -                 |
| $\frac{70}{(2)}$   | $\frac{20}{(1)}$  | $\frac{44}{(1)}$  | -                | -                 | $\frac{35}{(1)}$  | $\frac{43}{(1)}$  | $\frac{16}{(1)}$  | -                 | -                | $\frac{40}{(1)}$  | $\frac{8}{(1)}$   | -                | $\frac{25}{(4)}$  | $\frac{11}{(2)}$  | $\frac{20}{(1)}$ | $\frac{2}{(1)}$  | $\frac{111}{(1)}$ | $\frac{27}{(2)}$ | $\frac{261}{(4)}$ |
| $\frac{47}{(3)}$   | $\frac{12}{(3)}$  | $\frac{27}{(1)}$  | $\frac{1}{(1)}$  | -                 | $\frac{40}{(2)}$  | $\frac{51}{(2)}$  | -                 | $\frac{40}{(4)}$  | $\frac{5}{(1)}$  | $\frac{15}{(4)}$  | $\frac{22}{(2)}$  | $\frac{2}{(1)}$  | $\frac{30}{(9)}$  | $\frac{48}{(4)}$  | $\frac{10}{(7)}$ | $\frac{1}{(1)}$  | $\frac{56}{(4)}$  | $\frac{13}{(1)}$ | $\frac{181}{(7)}$ |
| -                  | $\frac{7}{(3)}$   | $\frac{2}{(1)}$   | $\frac{1}{(1)}$  | -                 | $\frac{20}{(1)}$  | $\frac{29}{(3)}$  | $\frac{77}{(1)}$  | $\frac{11}{(3)}$  | -                | $\frac{11}{(2)}$  | $\frac{7}{(1)}$   | -                | $\frac{40}{(4)}$  | $\frac{25}{(1)}$  | $\frac{9}{(4)}$  | $\frac{1}{(1)}$  | $\frac{52}{(3)}$  | $\frac{14}{(3)}$ | $\frac{126}{(2)}$ |
| -                  | $\frac{101}{(3)}$ | -                 | $\frac{69}{(1)}$ | $\frac{9}{(1)}$   | $\frac{263}{(2)}$ | $\frac{25}{(5)}$  | $\frac{34}{(4)}$  | $\frac{18}{(3)}$  | -                | $\frac{80}{(2)}$  | $\frac{53}{(4)}$  | $\frac{10}{(4)}$ | $\frac{26}{(1)}$  | $\frac{82}{(1)}$  | $\frac{60}{(1)}$ | $\frac{38}{(3)}$ | -                 | $\frac{4}{(1)}$  | $\frac{10}{(1)}$  |
| $\frac{70}{(11)}$  | $\frac{49}{(5)}$  | $\frac{208}{(7)}$ | $\frac{16}{(2)}$ | $\frac{108}{(6)}$ | $\frac{768}{(1)}$ | $\frac{137}{(8)}$ | $\frac{174}{(4)}$ | $\frac{154}{(8)}$ | $\frac{47}{(5)}$ | $\frac{676}{(4)}$ | $\frac{641}{(9)}$ | $\frac{1}{(1)}$  | $\frac{164}{(7)}$ | $\frac{640}{(6)}$ | $\frac{62}{(6)}$ | -                | $\frac{362}{(9)}$ | $\frac{51}{(2)}$ | $\frac{376}{(9)}$ |
| $\frac{113}{(11)}$ | -                 | $\frac{210}{(6)}$ | -                | $\frac{37}{(2)}$  | -                 | -                 | -                 | -                 | $\frac{10}{(3)}$ | $\frac{9}{(1)}$   | $\frac{64}{(4)}$  | -                | $\frac{9}{(2)}$   | $\frac{75}{(1)}$  | -                | -                | $\frac{94}{(7)}$  | -                | $\frac{431}{(4)}$ |
| -                  | $\frac{2}{(1)}$   | -                 | -                | -                 | $\frac{5}{(2)}$   | -                 | -                 | -                 | -                | -                 | -                 | -                | -                 | -                 | -                | -                | -                 | $\frac{2}{(1)}$  | -                 |
| $\frac{60}{(1)}$   | -                 | -                 | -                | $\frac{1}{(1)}$   | -                 | -                 | $\frac{1}{(1)}$   | $\frac{1}{(1)}$   | $\frac{2}{(3)}$  | -                 | -                 | -                | -                 | -                 | $\frac{2}{(3)}$  | -                | -                 | -                | $\frac{3}{(3)}$   |

Table 1 Cont.

| TAXON  | STATION           |                  |                  |                     |                  |                    |                   |                   |                   |                    |                   |                    |                    |                  |
|--|-------------------|------------------|------------------|---------------------|------------------|--------------------|-------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------|------------------|
|  | 784<br>(23)       | 824<br>(12)      | 864<br>(24)      | 874<br>(18)         | 906<br>(23)      | 917<br>(12)        | 961<br>(21)       | 1007<br>(13)      | 1053<br>(18)      | 1068<br>(17)       | 1100<br>(12)      | 1116<br>(14)       | 1165<br>(31)       | 1216<br>(12)     |
| <i>Lopholithodes</i> sp.<br>(larvae)                                 | $\frac{1}{(1)}$   | $\frac{1}{(1)}$  | $\frac{1}{(1)}$  | -                   | -                | -                  | -                 | -                 | -                 | -                  | -                 | -                  | $\frac{10}{(2)}$   | -                |
| <i>Pachycheles</i><br><i>pubescens</i> (zoea)                        | $\frac{2}{(2)}$   | -                | -                | $\frac{965}{(2)}$   | -                | $\frac{8}{(1)}$    | $\frac{149}{(3)}$ | $\frac{77}{(2)}$  | -                 | $\frac{65}{(3)}$   | -                 | $\frac{130}{(6)}$  | $\frac{8}{(2)}$    | $\frac{19}{(1)}$ |
| Paguridea (larvae)   | $\frac{32}{(5)}$  | $\frac{40}{(2)}$ | $\frac{1}{(1)}$  | $\frac{419}{(6)}$   | -                | $\frac{63}{(4)}$   | $\frac{13}{(6)}$  | $\frac{8}{(4)}$   | $\frac{24}{(3)}$  | $\frac{128}{(3)}$  | $\frac{151}{(2)}$ | $\frac{70}{(6)}$   | $\frac{59}{(8)}$   | $\frac{9}{(3)}$  |
| Porcellanidae<br>(larvae)  | $\frac{2}{(3)}$   | -                | -                | $\frac{227}{(10)}$  | $\frac{2}{(1)}$  | $\frac{51}{(7)}$   | $\frac{19}{(3)}$  | $\frac{23}{(1)}$  | -                 | $\frac{47}{(14)}$  | -                 | $\frac{43}{(3)}$   | $\frac{17}{(8)}$   | $\frac{19}{(1)}$ |
| Section Brachyura<br><i>Cancer antennarius</i><br>(zoeal stages I-3) | $\frac{19}{(17)}$ | $\frac{6}{(1)}$  | -                | $\frac{1253}{(16)}$ | -                | $\frac{884}{(10)}$ | $\frac{27}{(16)}$ | $\frac{102}{(9)}$ | $\frac{66}{(8)}$  | $\frac{742}{(15)}$ | -                 | $\frac{834}{(13)}$ | $\frac{225}{(18)}$ | $\frac{53}{(5)}$ |
| <i>Cancer antennarius</i><br>(zoeal stages 4-5)                      | $\frac{79}{(17)}$ | $\frac{13}{(8)}$ | $\frac{1}{(4)}$  | $\frac{207}{(8)}$   | -                | $\frac{99}{(9)}$   | $\frac{50}{(17)}$ | $\frac{29}{(7)}$  | $\frac{109}{(3)}$ | $\frac{133}{(10)}$ | $\frac{9}{(1)}$   | $\frac{128}{(14)}$ | $\frac{123}{(13)}$ | $\frac{81}{(4)}$ |
| <i>Cancer antennarius</i><br>(megalopae)                             | $\frac{5}{(10)}$  | $\frac{7}{(2)}$  | $\frac{4}{(5)}$  | $\frac{15}{(1)}$    | $\frac{4}{(2)}$  | $\frac{4}{(2)}$    | $\frac{23}{(3)}$  | $\frac{11}{(2)}$  | $\frac{9}{(8)}$   | -                  | $\frac{2}{(3)}$   | $\frac{2}{(2)}$    | $\frac{52}{(8)}$   | $\frac{1}{(1)}$  |
| <i>Cancer anthonyi</i><br>(zoeal stages 1-3)                         | -                 | -                | -                | -                   | -                | -                  | $\frac{1}{(1)}$   | -                 | -                 | -                  | -                 | $\frac{1}{(1)}$    | -                  | -                |
| <i>Cancer anthonyi</i><br>(zoeal stages 4-5)                         | $\frac{2}{(2)}$   | -                | -                | $\frac{2}{(1)}$     | -                | -                  | $\frac{11}{(1)}$  | $\frac{1}{(1)}$   | -                 | -                  | -                 | $\frac{4}{(2)}$    | $\frac{3}{(3)}$    | -                |
| <i>Cancer anthonyi</i><br>(megalopae)                                | -                 | -                | -                | -                   | -                | -                  | -                 | -                 | -                 | -                  | -                 | -                  | -                  | -                |
| <i>Cancer gracilis</i><br>(zoeal stages 1-3)                         | $\frac{13}{(6)}$  | $\frac{5}{(3)}$  | $\frac{1}{(1)}$  | $\frac{59}{(7)}$    | $\frac{10}{(3)}$ | $\frac{151}{(8)}$  | $\frac{10}{(10)}$ | $\frac{6}{(5)}$   | $\frac{348}{(3)}$ | $\frac{36}{(6)}$   | $\frac{10}{(3)}$  | $\frac{45}{(13)}$  | $\frac{112}{(12)}$ | $\frac{58}{(4)}$ |
| <i>Cancer gracilis</i><br>(zoeal stages 4-5)                         | $\frac{28}{(14)}$ | $\frac{9}{(7)}$  | $\frac{2}{(5)}$  | $\frac{33}{(1)}$    | $\frac{53}{(3)}$ | $\frac{7}{(3)}$    | $\frac{9}{(7)}$   | $\frac{2}{(2)}$   | $\frac{228}{(8)}$ | $\frac{9}{(1)}$    | $\frac{31}{(3)}$  | $\frac{9}{(4)}$    | $\frac{7}{(12)}$   | $\frac{67}{(5)}$ |
| <i>Cancer gracilis</i><br>(megalopae)                                | $\frac{9}{(13)}$  | $\frac{11}{(3)}$ | $\frac{4}{(10)}$ | $\frac{7}{(3)}$     | $\frac{16}{(6)}$ | $\frac{1}{(1)}$    | $\frac{7}{(5)}$   | $\frac{1}{(3)}$   | $\frac{22}{(7)}$  | $\frac{5}{(3)}$    | $\frac{22}{(5)}$  | -                  | $\frac{5}{(16)}$   | $\frac{4}{(5)}$  |
| <i>Cancer magister</i><br>(zoeal stage 1)                            | $\frac{6}{(3)}$   | -                | $\frac{1}{(1)}$  | -                   | -                | $\frac{3}{(2)}$    | $\frac{8}{(2)}$   | $\frac{4}{(3)}$   | $\frac{10}{(1)}$  | $\frac{1}{(1)}$    | -                 | $\frac{1}{(2)}$    | -                  | -                |



STATION

| 1241<br>(27)       | 1274<br>(23)      | 1299<br>(19)       | 1332<br>(12)     | 1357<br>(11)      | 1390<br>(23)      | 1414<br>(22)      | 1472<br>(12)     | 1529<br>(23)     | 1552<br>(9)      | 1584<br>(12)      | 1607<br>(23)       | 1639<br>(14)     | 1660<br>(25)       | 1709<br>(12)      | 1757<br>(24)      | 1804<br>(14)     | 1819<br>(22)       | 1851<br>(25)     | 1865<br>(22)       |
|--------------------|-------------------|--------------------|------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|-------------------|--------------------|------------------|--------------------|-------------------|-------------------|------------------|--------------------|------------------|--------------------|
| -                  | $\frac{1}{(1)}$   | -                  | -                | -                 | -                 | -                 | -                | -                | -                | -                 | -                  | -                | -                  | -                 | $\frac{1}{(1)}$   | -                | -                  | $\frac{8}{(4)}$  | $\frac{11}{(1)}$   |
| $\frac{8}{(2)}$    | -                 | $\frac{414}{(5)}$  | -                | -                 | $\frac{1}{(1)}$   | -                 | $\frac{29}{(1)}$ | $\frac{14}{(1)}$ | -                | $\frac{9}{(1)}$   | $\frac{22}{(3)}$   | -                | $\frac{2}{(2)}$    | -                 | $\frac{3}{(1)}$   | -                | $\frac{445}{(7)}$  | $\frac{4}{(2)}$  | $\frac{96}{(6)}$   |
| $\frac{82}{(8)}$   | $\frac{37}{(4)}$  | $\frac{99}{(7)}$   | $\frac{11}{(3)}$ | $\frac{69}{(2)}$  | $\frac{245}{(2)}$ | $\frac{35}{(5)}$  | $\frac{30}{(2)}$ | $\frac{4}{(3)}$  | $\frac{22}{(2)}$ | -                 | $\frac{48}{(4)}$   | $\frac{1}{(1)}$  | $\frac{57}{(7)}$   | $\frac{152}{(3)}$ | $\frac{31}{(3)}$  | $\frac{13}{(1)}$ | $\frac{56}{(9)}$   | $\frac{4}{(1)}$  | $\frac{150}{(6)}$  |
| $\frac{146}{(17)}$ | -                 | $\frac{220}{(11)}$ | -                | $\frac{131}{(1)}$ | -                 | $\frac{33}{(3)}$  | $\frac{4}{(3)}$  | -                | $\frac{3}{(3)}$  | $\frac{2}{(3)}$   | $\frac{8}{(8)}$    | -                | $\frac{12}{(8)}$   | $\frac{19}{(2)}$  | $\frac{2}{(1)}$   | -                | $\frac{140}{(10)}$ | -                | $\frac{140}{(9)}$  |
| $\frac{253}{(24)}$ | $\frac{19}{(4)}$  | $\frac{438}{(15)}$ | $\frac{4}{(1)}$  | $\frac{98}{(7)}$  | $\frac{437}{(2)}$ | $\frac{10}{(9)}$  | $\frac{33}{(7)}$ | $\frac{41}{(8)}$ | $\frac{87}{(6)}$ | $\frac{24}{(7)}$  | $\frac{225}{(14)}$ | $\frac{1}{(1)}$  | $\frac{413}{(11)}$ | $\frac{100}{(6)}$ | $\frac{25}{(4)}$  | $\frac{20}{(4)}$ | $\frac{543}{(18)}$ | $\frac{12}{(4)}$ | $\frac{743}{(18)}$ |
| $\frac{12}{(7)}$   | $\frac{7}{(3)}$   | $\frac{88}{(10)}$  | $\frac{6}{(2)}$  | $\frac{24}{(6)}$  | $\frac{9}{(2)}$   | $\frac{13}{(6)}$  | $\frac{14}{(3)}$ | $\frac{9}{(8)}$  | $\frac{2}{(2)}$  | $\frac{33}{(5)}$  | $\frac{85}{(13)}$  | $\frac{1}{(1)}$  | $\frac{56}{(12)}$  | $\frac{45}{(6)}$  | $\frac{31}{(6)}$  | $\frac{21}{(2)}$ | $\frac{200}{(16)}$ | $\frac{8}{(4)}$  | $\frac{142}{(15)}$ |
| $\frac{2}{(1)}$    | $\frac{9}{(4)}$   | $\frac{6}{(2)}$    | -                | $\frac{2}{(2)}$   | $\frac{4}{(1)}$   | $\frac{148}{(5)}$ | $\frac{3}{(1)}$  | $\frac{4}{(3)}$  | $\frac{2}{(1)}$  | $\frac{6}{(1)}$   | $\frac{5}{(4)}$    | $\frac{1}{(1)}$  | $\frac{49}{(6)}$   | $\frac{27}{(3)}$  | $\frac{14}{(3)}$  | $\frac{1}{(1)}$  | $\frac{10}{(5)}$   | -                | $\frac{3}{(4)}$    |
| -                  | $\frac{1}{(1)}$   | -                  | -                | $\frac{1}{(1)}$   | -                 | -                 | -                | $\frac{5}{(1)}$  | -                | -                 | -                  | -                | $\frac{2}{(2)}$    | -                 | -                 | -                | $\frac{3}{(2)}$    | -                | -                  |
| -                  | -                 | -                  | -                | $\frac{1}{(1)}$   | -                 | -                 | -                | -                | -                | $\frac{2}{(1)}$   | -                  | -                | -                  | $\frac{1}{(1)}$   | $\frac{32}{(1)}$  | -                | -                  | -                | -                  |
| $\frac{1}{(1)}$    | -                 | -                  | -                | -                 | -                 | $\frac{1}{(1)}$   | -                | -                | -                | -                 | -                  | -                | -                  | -                 | -                 | -                | -                  | -                | -                  |
| $\frac{12}{(3)}$   | $\frac{23}{(6)}$  | $\frac{136}{(9)}$  | $\frac{18}{(3)}$ | $\frac{10}{(6)}$  | $\frac{36}{(2)}$  | $\frac{5}{(7)}$   | $\frac{25}{(5)}$ | $\frac{19}{(6)}$ | $\frac{14}{(5)}$ | $\frac{139}{(6)}$ | $\frac{23}{(15)}$  | $\frac{1}{(1)}$  | $\frac{71}{(12)}$  | $\frac{24}{(10)}$ | $\frac{5}{(7)}$   | $\frac{30}{(4)}$ | $\frac{114}{(15)}$ | $\frac{7}{(8)}$  | $\frac{171}{(10)}$ |
| $\frac{1}{(1)}$    | $\frac{106}{(6)}$ | $\frac{6}{(3)}$    | $\frac{18}{(1)}$ | $\frac{5}{(5)}$   | $\frac{60}{(3)}$  | $\frac{14}{(10)}$ | $\frac{6}{(5)}$  | $\frac{14}{(6)}$ | -                | $\frac{53}{(5)}$  | $\frac{9}{(5)}$    | $\frac{19}{(2)}$ | $\frac{18}{(8)}$   | $\frac{25}{(5)}$  | $\frac{13}{(11)}$ | $\frac{26}{(4)}$ | $\frac{15}{(8)}$   | $\frac{51}{(6)}$ | $\frac{42}{(9)}$   |
| $\frac{7}{(2)}$    | $\frac{9}{(6)}$   | $\frac{6}{(3)}$    | $\frac{1}{(1)}$  | $\frac{4}{(7)}$   | $\frac{1}{(1)}$   | $\frac{14}{(7)}$  | $\frac{3}{(4)}$  | $\frac{4}{(4)}$  | $\frac{6}{(2)}$  | $\frac{13}{(2)}$  | $\frac{5}{(7)}$    | $\frac{1}{(4)}$  | $\frac{8}{(5)}$    | $\frac{27}{(1)}$  | $\frac{16}{(9)}$  | $\frac{2}{(4)}$  | $\frac{5}{(9)}$    | $\frac{8}{(3)}$  | $\frac{3}{(3)}$    |
| -                  | $\frac{2}{(2)}$   | -                  | $\frac{1}{(1)}$  | -                 | $\frac{1}{(1)}$   | $\frac{1}{(5)}$   | $\frac{3}{(3)}$  | $\frac{1}{(2)}$  | -                | $\frac{10}{(1)}$  | -                  | $\frac{1}{(1)}$  | $\frac{2}{(2)}$    | $\frac{1}{(1)}$   | $\frac{1}{(1)}$   | -                | $\frac{4}{(1)}$    | $\frac{3}{(2)}$  | $\frac{14}{(1)}$   |

Table 1 Cont.

| TAXON   | STATION            |                  |                  |                    |                 |                   |                    |                   |                    |                     |                  |                    |                     |                   |
|---|--------------------|------------------|------------------|--------------------|-----------------|-------------------|--------------------|-------------------|--------------------|---------------------|------------------|--------------------|---------------------|-------------------|
|   | 784<br>(23)        | 824<br>(12)      | 864<br>(24)      | 874<br>(18)        | 906<br>(23)     | 917<br>(12)       | 961<br>(21)        | 1007<br>(13)      | 1053<br>(18)       | 1068<br>(17)        | 1100<br>(12)     | 1116<br>(14)       | 1165<br>(31)        | 1216<br>(12)      |
| <i>Cancer magister</i><br>(zoeal stage 2)       | $\frac{1}{(1)}$    | -                | $\frac{1}{(1)}$  | -                  | -               | -                 | -                  | $\frac{2}{(1)}$   | $\frac{5}{(3)}$    | -                   | $\frac{2}{(1)}$  | -                  | -                   | -                 |
| <i>Cancer magister</i><br>(zoeal stage 3)       | -                  | -                | $\frac{2}{(1)}$  | -                  | -               | -                 | -                  | -                 | $\frac{1}{(1)}$    | -                   | $\frac{2}{(1)}$  | -                  | -                   | -                 |
| <i>Cancer magister</i><br>(zoeal stage 4)       | -                  | -                | -                | -                  | $\frac{4}{(1)}$ | -                 | -                  | -                 | $\frac{3}{(2)}$    | -                   | -                | -                  | -                   | -                 |
| <i>Cancer magister</i><br>(zoeal stage 5)       | -                  | -                | -                | -                  | -               | -                 | -                  | -                 | -                  | -                   | -                | -                  | -                   | -                 |
| <i>Cancer magister</i><br>(megalopa)            | -                  | -                | $\frac{2}{(1)}$  | -                  | $\frac{1}{(1)}$ | -                 | $\frac{18}{(1)}$   | $\frac{5}{(2)}$   | $\frac{4}{(2)}$    | $\frac{1}{(1)}$     | $\frac{2}{(1)}$  | $\frac{10}{(1)}$   | -                   | -                 |
| <i>Cancer oregonensis</i><br>(zoeal stages 1-3) | $\frac{10}{(9)}$   | $\frac{3}{(4)}$  | $\frac{3}{(6)}$  | $\frac{92}{(4)}$   | $\frac{4}{(5)}$ | $\frac{1}{(1)}$   | $\frac{5}{(9)}$    | $\frac{8}{(16)}$  | $\frac{4}{(6)}$    | $\frac{33}{(4)}$    | $\frac{3}{(7)}$  | $\frac{9}{(6)}$    | $\frac{33}{(15)}$   | $\frac{11}{(4)}$  |
| <i>Cancer oregonensis</i><br>(zoeal stages 4-5) | $\frac{1}{(2)}$    | -                | $\frac{1}{(3)}$  | -                  | $\frac{2}{(2)}$ | $\frac{110}{(8)}$ | -                  | $\frac{2}{(1)}$   | -                  | -                   | -                | -                  | -                   | -                 |
| <i>Cancer oregonensis</i><br>(megalopa)         | $\frac{1}{(2)}$    | $\frac{1}{(1)}$  | -                | $\frac{2}{(1)}$    | $\frac{1}{(3)}$ | -                 | $\frac{4}{(2)}$    | -                 | $\frac{2}{(1)}$    | -                   | $\frac{1}{(1)}$  | -                  | $\frac{1}{(1)}$     | -                 |
| <i>Cancer productus</i><br>(zoeal stages 1-3)   | $\frac{27}{(13)}$  | $\frac{6}{(6)}$  | $\frac{8}{(12)}$ | $\frac{84}{(4)}$   | -               | $\frac{69}{(7)}$  | $\frac{20}{(10)}$  | $\frac{15}{(9)}$  | $\frac{4}{(11)}$   | $\frac{46}{(13)}$   | $\frac{32}{(4)}$ | $\frac{41}{(10)}$  | $\frac{187}{(22)}$  | $\frac{29}{(8)}$  |
| <i>Cancer productus</i><br>(zoeal stages 4-5)   | -                  | -                | $\frac{3}{(2)}$  | -                  | -               | -                 | -                  | -                 | $\frac{15}{(2)}$   | -                   | $\frac{30}{(2)}$ | -                  | -                   | $\frac{7}{(3)}$   |
| <i>Cancer productus</i><br>(megalopa)           | $\frac{1}{(1)}$    | -                | $\frac{1}{(1)}$  | -                  | -               | -                 | -                  | $\frac{1}{(1)}$   | $\frac{1}{(2)}$    | -                   | -                | -                  | $\frac{4}{(2)}$     | $\frac{9}{(1)}$   |
| <i>Cancer sp. (larvae)</i>                      | $\frac{194}{(15)}$ | $\frac{29}{(6)}$ | $\frac{24}{(9)}$ | $\frac{1639}{(8)}$ | -               | $\frac{708}{(6)}$ | $\frac{102}{(15)}$ | $\frac{165}{(8)}$ | $\frac{360}{(13)}$ | $\frac{1970}{(11)}$ | $\frac{66}{(7)}$ | $\frac{1585}{(9)}$ | $\frac{1227}{(18)}$ | $\frac{284}{(7)}$ |
| <i>Chionectes tanneri</i><br>(zoeal stages 1-3) | -                  | -                | -                | -                  | -               | -                 | -                  | -                 | -                  | -                   | -                | -                  | -                   | -                 |
| <i>Chionectes tanneri</i><br>(zoeal stages 4-5) | -                  | -                | -                | -                  | $\frac{5}{(1)}$ | -                 | -                  | -                 | -                  | $\frac{2}{(1)}$     | -                | -                  | -                   | -                 |

STATION

| 1241<br>(27)       | 1274<br>(23)       | 1299<br>(19)        | 1332<br>(12)     | 1357<br>(11)      | 1390<br>(23)      | 1414<br>(22)       | 1472<br>(12)      | 1529<br>(23)      | 1552<br>(9)       | 1584<br>(12)      | 1607<br>(23)       | 1639<br>(14)     | 1660<br>(25)       | 1709<br>(12)      | 1757<br>(24)      | 1804<br>(14)     | 1819<br>(22)        | 1851<br>(25)      | 1865<br>(22)        |
|--------------------|--------------------|---------------------|------------------|-------------------|-------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|------------------|--------------------|-------------------|-------------------|------------------|---------------------|-------------------|---------------------|
| -                  | $\frac{1}{(1)}$    | -                   | -                | -                 | $\frac{1}{(1)}$   | $\frac{1}{(2)}$    | -                 | -                 | -                 | $\frac{19}{(1)}$  | -                  | $\frac{1}{(1)}$  | -                  | -                 | -                 | $\frac{1}{(1)}$  | -                   | $\frac{34}{(1)}$  | -                   |
| -                  | -                  | -                   | -                | -                 | -                 | -                  | -                 | $\frac{1}{(1)}$   | -                 | $\frac{1}{(1)}$   | -                  | -                | -                  | -                 | $\frac{2}{(1)}$   | $\frac{1}{(1)}$  | -                   | $\frac{11}{(1)}$  | -                   |
| -                  | $\frac{2}{(1)}$    | -                   | -                | -                 | -                 | -                  | -                 | -                 | -                 | -                 | -                  | -                | -                  | -                 | $\frac{2}{(1)}$   | $\frac{1}{(1)}$  | -                   | -                 | -                   |
| -                  | -                  | -                   | -                | -                 | -                 | -                  | -                 | -                 | -                 | -                 | -                  | -                | -                  | -                 | -                 | -                | -                   | -                 | -                   |
| -                  | $\frac{3}{(1)}$    | $\frac{3}{(2)}$     | $\frac{1}{(1)}$  | $\frac{11}{(1)}$  | $\frac{2}{(2)}$   | $\frac{12}{(3)}$   | $\frac{3}{(1)}$   | $\frac{61}{(1)}$  | -                 | $\frac{1}{(1)}$   | $\frac{5}{(2)}$    | $\frac{4}{(1)}$  | $\frac{16}{(4)}$   | $\frac{2}{(1)}$   | $\frac{16}{(2)}$  | -                | $\frac{2}{(2)}$     | -                 | $\frac{42}{(1)}$    |
| $\frac{33}{(2)}$   | $\frac{4}{(8)}$    | $\frac{238}{(4)}$   | $\frac{5}{(3)}$  | $\frac{2}{(5)}$   | $\frac{1}{(3)}$   | $\frac{8}{(6)}$    | $\frac{17}{(7)}$  | $\frac{5}{(4)}$   | $\frac{157}{(3)}$ | $\frac{4}{(8)}$   | $\frac{2}{(8)}$    | $\frac{1}{(3)}$  | $\frac{28}{(10)}$  | $\frac{42}{(5)}$  | $\frac{11}{(10)}$ | $\frac{1}{(1)}$  | $\frac{149}{(4)}$   | $\frac{10}{(10)}$ | $\frac{185}{(12)}$  |
| -                  | -                  | -                   | -                | $\frac{1}{(1)}$   | -                 | $\frac{3}{(3)}$    | -                 | $\frac{1}{(1)}$   | -                 | -                 | -                  | -                | $\frac{3}{(2)}$    | -                 | $\frac{2}{(3)}$   | -                | -                   | -                 | $\frac{9}{(1)}$     |
| -                  | $\frac{4}{(1)}$    | $\frac{1}{(1)}$     | $\frac{1}{(1)}$  | $\frac{1}{(1)}$   | $\frac{2}{(3)}$   | $\frac{1}{(2)}$    | $\frac{1}{(1)}$   | $\frac{2}{(2)}$   | $\frac{2}{(2)}$   | -                 | $\frac{1}{(1)}$    | $\frac{4}{(2)}$  | $\frac{1}{(1)}$    | $\frac{4}{(3)}$   | -                 | $\frac{1}{(3)}$  | $\frac{2}{(1)}$     | $\frac{4}{(2)}$   | -                   |
| $\frac{68}{(24)}$  | $\frac{5}{(10)}$   | $\frac{120}{(13)}$  | $\frac{2}{(6)}$  | $\frac{31}{(6)}$  | $\frac{3}{(6)}$   | $\frac{25}{(13)}$  | $\frac{7}{(6)}$   | $\frac{6}{(6)}$   | $\frac{24}{(6)}$  | $\frac{9}{(5)}$   | $\frac{60}{(13)}$  | $\frac{3}{(5)}$  | $\frac{35}{(13)}$  | $\frac{22}{(8)}$  | $\frac{9}{(14)}$  | $\frac{10}{(3)}$ | $\frac{70}{(7)}$    | $\frac{43}{(5)}$  | $\frac{97}{(13)}$   |
| -                  | $\frac{3}{(2)}$    | -                   | $\frac{2}{(1)}$  | -                 | $\frac{7}{(2)}$   | $\frac{3}{(2)}$    | -                 | -                 | -                 | -                 | -                  | -                | -                  | -                 | -                 | $\frac{15}{(2)}$ | -                   | $\frac{1}{(1)}$   | -                   |
| -                  | $\frac{2}{(3)}$    | -                   | -                | -                 | -                 | $\frac{4}{(2)}$    | -                 | $\frac{2}{(1)}$   | -                 | -                 | -                  | -                | -                  | -                 | -                 | -                | -                   | -                 | $\frac{1}{(1)}$     |
| $\frac{650}{(22)}$ | $\frac{131}{(10)}$ | $\frac{2241}{(13)}$ | $\frac{12}{(5)}$ | $\frac{138}{(9)}$ | $\frac{155}{(8)}$ | $\frac{146}{(11)}$ | $\frac{109}{(6)}$ | $\frac{73}{(11)}$ | $\frac{870}{(7)}$ | $\frac{225}{(7)}$ | $\frac{368}{(12)}$ | $\frac{91}{(8)}$ | $\frac{554}{(13)}$ | $\frac{183}{(9)}$ | $\frac{62}{(16)}$ | $\frac{51}{(8)}$ | $\frac{1432}{(16)}$ | $\frac{60}{(14)}$ | $\frac{2702}{(15)}$ |
| -                  | -                  | -                   | -                | -                 | -                 | -                  | $\frac{11}{(1)}$  | -                 | -                 | -                 | -                  | -                | -                  | -                 | -                 | -                | -                   | -                 | -                   |
| -                  | $\frac{12}{(1)}$   | -                   | -                | -                 | -                 | -                  | $\frac{1}{(1)}$   | -                 | -                 | -                 | -                  | -                | -                  | -                 | -                 | -                | -                   | -                 | -                   |

Table 1 Cont.

| TAXON                                       | STATION     |             |             |             |             |             |             |              |              |              |              |              |              |              |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|   | 784<br>(23) | 824<br>(12) | 864<br>(24) | 874<br>(18) | 906<br>(23) | 917<br>(12) | 961<br>(21) | 1007<br>(13) | 1053<br>(18) | 1068<br>(17) | 1100<br>(12) | 1116<br>(14) | 1165<br>(31) | 1216<br>(12) |
| Grapsidae<br>(zoeal stage 1-3)              | 9<br>(5)    | -           | -           | 304<br>(14) | -           | 32<br>(4)   | 3<br>(5)    | 114<br>(6)   | 116<br>(8)   | 502<br>(12)  | 2<br>(1)     | 98<br>(8)    | 2<br>(3)     | 2<br>(2)     |
| Grapsidae<br>(zoeal stage 4-5)              | 2<br>(5)    | -           | -           | 127<br>(7)  | -           | 1<br>(3)    | 6<br>(4)    | 5<br>(2)     | -            | 162<br>(5)   | -            | 9<br>(5)     | -            | -            |
| Grapsida<br>(megalopa)                      | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| Majidae<br>(zoeal stage 1)                  | 16<br>(14)  | 3<br>(2)    | 4<br>(11)   | 10<br>(4)   | 23<br>(8)   | 17<br>(6)   | 20<br>(7)   | 10<br>(9)    | 17<br>(13)   | 19<br>(5)    | 1<br>(3)     | 19<br>(4)    | 15<br>(14)   | 18<br>(6)    |
| Majidae<br>(zoeal stage 2)                  | 36<br>(12)  | 4<br>(5)    | 10<br>(4)   | 10<br>(5)   | 1<br>(2)    | 10<br>(3)   | 5<br>(5)    | 2<br>(8)     | 43<br>(7)    | 40<br>(4)    | 35<br>(3)    | 8<br>(2)     | 13<br>(13)   | 27<br>(5)    |
| Majidae (megalopa)                          | 8<br>(11)   | 5<br>(5)    | 6<br>(7)    | 2<br>(2)    | 61<br>(4)   | 5<br>(6)    | 6<br>(6)    | 3<br>(7)     | 10<br>(5)    | 3<br>(2)     | 47<br>(2)    | 5<br>(3)     | 7<br>(9)     | 8<br>(6)     |
| <i>Oregonia gracilis</i><br>(zoeal stage 1) | 9<br>(2)    | -           | -           | -           | -           | -           | 5<br>(1)    | -            | -            | -            | -            | -            | 1<br>(1)     | 1<br>(1)     |
| <i>Oregonia gracilis</i><br>(zoeal stage 2) | -           | -           | -           | -           | 2<br>(2)    | -           | -           | -            | 28<br>(1)    | -            | -            | -            | -            | -            |
| <i>Oregonia gracilis</i><br>(megalopa)      | -           | -           | -           | -           | -           | -           | -           | -            | 1<br>(1)     | -            | -            | -            | 1<br>(1)     | -            |
| *   | *           | *           | *           | *           | *           | *           | *           | *            | *            | *            | *            | *            | *            | *            |
| PHYLUM PHORONIDA<br>Actinotroch larva       | -           | -           | 25<br>(1)   | 298<br>(1)  | 9<br>(1)    | -           | 87<br>(1)   | -            | -            | 11<br>(1)    | -            | -            | 1<br>(1)     | 9<br>(1)     |
| *   | *           | *           | *           | *           | *           | *           | *           | *            | *            | *            | *            | *            | *            | *            |
| PHYLUM BRACHIOPODA<br>lingulid larvae       | 10<br>(4)   | 14<br>(3)   | 9<br>(1)    | 42<br>(2)   | 35<br>(2)   | 37<br>(1)   | 63<br>(2)   | -            | 68<br>(2)    | 5<br>(2)     | -            | 18<br>(2)    | 37<br>(2)    | -            |
| *   | *           | *           | *           | *           | *           | *           | *           | *            | *            | *            | *            | *            | *            | *            |

STATION

| 1241<br>(27)       | 1274<br>(23)     | 1299<br>(19)       | 1332<br>(12)     | 1357<br>(11)    | 1390<br>(23)     | 1414<br>(22)      | 1472<br>(12)     | 1529<br>(23)     | 1552<br>(9)      | 1584<br>(12)     | 1607<br>(23)     | 1639<br>(14)    | 1660<br>(25)      | 1709<br>(12)     | 1757<br>(24)     | 1804<br>(14)     | 1819<br>(22)      | 1851<br>(25)     | 1865<br>(22)      |   |
|--------------------|------------------|--------------------|------------------|-----------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|-----------------|-------------------|------------------|------------------|------------------|-------------------|------------------|-------------------|---|
| $\frac{111}{(21)}$ | -                | $\frac{141}{(10)}$ | -                | $\frac{1}{(1)}$ | -                | $\frac{5}{(2)}$   | $\frac{4}{(5)}$  | $\frac{1}{(4)}$  | $\frac{26}{(4)}$ | $\frac{2}{(3)}$  | $\frac{8}{(2)}$  | -               | $\frac{30}{(9)}$  | $\frac{6}{(4)}$  | $\frac{1}{(1)}$  | -                | $\frac{35}{(13)}$ | -                | $\frac{31}{(10)}$ |   |
| $\frac{36}{(6)}$   | -                | $\frac{38}{(6)}$   | -                | -               | -                | -                 | $\frac{2}{(4)}$  | $\frac{1}{(1)}$  | $\frac{3}{(2)}$  | $\frac{1}{(1)}$  | $\frac{13}{(1)}$ | -               | $\frac{5}{(3)}$   | $\frac{4}{(2)}$  | $\frac{1}{(1)}$  | -                | $\frac{19}{(6)}$  | -                | $\frac{7}{(5)}$   |   |
| $\frac{4}{(1)}$    | -                | -                  | -                | -               | -                | -                 | -                | -                | -                | -                | $\frac{19}{(1)}$ | -               | -                 | -                | -                | -                | $\frac{1}{(2)}$   | -                | $\frac{9}{(1)}$   |   |
| $\frac{51}{(18)}$  | $\frac{4}{(9)}$  | $\frac{49}{(8)}$   | $\frac{3}{(10)}$ | $\frac{4}{(7)}$ | $\frac{2}{(6)}$  | $\frac{24}{(12)}$ | $\frac{74}{(8)}$ | $\frac{6}{(5)}$  | $\frac{26}{(1)}$ | $\frac{1}{(6)}$  | $\frac{9}{(5)}$  | $\frac{1}{(2)}$ | $\frac{31}{(13)}$ | $\frac{17}{(6)}$ | $\frac{9}{(11)}$ | $\frac{2}{(5)}$  | $\frac{27}{(13)}$ | -                | $\frac{7}{(5)}$   |   |
| $\frac{16}{(13)}$  | $\frac{21}{(5)}$ | $\frac{48}{(7)}$   | $\frac{2}{(2)}$  | $\frac{3}{(4)}$ | $\frac{14}{(3)}$ | $\frac{15}{(12)}$ | $\frac{43}{(7)}$ | $\frac{3}{(4)}$  | -                | $\frac{7}{(4)}$  | $\frac{9}{(2)}$  | $\frac{8}{(1)}$ | $\frac{11}{(9)}$  | $\frac{15}{(6)}$ | $\frac{5}{(5)}$  | $\frac{25}{(2)}$ | $\frac{2}{(4)}$   | $\frac{4}{(5)}$  | $\frac{36}{(9)}$  |   |
| $\frac{1}{(1)}$    | $\frac{5}{(5)}$  | $\frac{4}{(5)}$    | $\frac{2}{(2)}$  | $\frac{1}{(1)}$ | $\frac{1}{(1)}$  | $\frac{14}{(6)}$  | $\frac{8}{(4)}$  | $\frac{2}{(6)}$  | $\frac{4}{(3)}$  | $\frac{8}{(3)}$  | $\frac{5}{(7)}$  | $\frac{1}{(1)}$ | $\frac{2}{(5)}$   | $\frac{8}{(2)}$  | $\frac{3}{(8)}$  | $\frac{11}{(3)}$ | $\frac{4}{(7)}$   | $\frac{5}{(3)}$  | $\frac{12}{(6)}$  |   |
| -                  | $\frac{4}{(1)}$  | -                  | -                | -               | -                | -                 | -                | $\frac{1}{(1)}$  | -                | -                | $\frac{3}{(1)}$  | -               | $\frac{1}{(2)}$   | -                | -                | -                | -                 | -                | $\frac{1}{(1)}$   |   |
| -                  | -                | -                  | -                | -               | -                | $\frac{1}{(1)}$   | -                | -                | -                | -                | -                | -               | $\frac{3}{(1)}$   | -                | -                | -                | -                 | -                | -                 |   |
| -                  | -                | -                  | -                | -               | -                | -                 | -                | -                | -                | -                | -                | -               | $\frac{2}{(1)}$   | -                | -                | -                | -                 | -                | -                 |   |
| *                  | *                | *                  | *                | *               | *                | *                 | *                | *                | *                | *                | *                | *               | *                 | *                | *                | *                | *                 | *                | *                 | * |
| -                  | $\frac{9}{(1)}$  | -                  | -                | -               | -                | -                 | -                | $\frac{29}{(1)}$ | -                | -                | $\frac{19}{(1)}$ | -               | -                 | $\frac{9}{(1)}$  | $\frac{4}{(1)}$  | $\frac{9}{(1)}$  | $\frac{47}{(1)}$  | $\frac{20}{(2)}$ | -                 |   |
| *                  | *                | *                  | *                | *               | *                | *                 | *                | *                | *                | *                | *                | *               | *                 | *                | *                | *                | *                 | *                | *                 | * |
| -                  | $\frac{18}{(2)}$ | $\frac{14}{(1)}$   | -                | $\frac{9}{(1)}$ | -                | $\frac{19}{(2)}$  | $\frac{33}{(1)}$ | $\frac{14}{(2)}$ | -                | $\frac{20}{(3)}$ | $\frac{49}{(2)}$ | -               | $\frac{16}{(3)}$  | $\frac{68}{(3)}$ | $\frac{15}{(2)}$ | -                | $\frac{8}{(1)}$   | -                | -                 |   |
| *                  | *                | *                  | *                | *               | *                | *                 | *                | *                | *                | *                | *                | *               | *                 | *                | *                | *                | *                 | *                | *                 | * |

Table 1 Cont.

| TAXON                                   | STATION     |             |             |             |             |             |             |              |              |              |              |              |              |              |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|   | 784<br>(23) | 824<br>(12) | 864<br>(24) | 874<br>(18) | 906<br>(23) | 917<br>(12) | 961<br>(21) | 1007<br>(13) | 1053<br>(18) | 1068<br>(17) | 1100<br>(12) | 1116<br>(14) | 1165<br>(31) | 1216<br>(12) |
| PHYLUM ECHINODERMATA<br>(pluteus larva) | -           | -           | -           | -           | -           | -           | -           | -            | 10<br>(1)    | -            | -            | -            | 9<br>(1)     | -            |
| brachiolaria larva                      | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | 9<br>(1)     | -            | -            | -            |
| echinopluteus larva                     | 9<br>(2)    | -           | 9<br>(2)    | 341<br>(1)  | 16<br>(1)   | -           | -           | -            | -            | -            | 6<br>(1)     | -            | 95<br>(1)    | 51<br>(3)    |
| ophiopluteus larva                      | 17<br>(3)   | 95<br>(1)   | 30<br>(3)   | 101<br>(1)  | 125<br>(3)  | -           | 14<br>(2)   | 9<br>(1)     | 170<br>(3)   | -            | 61<br>(2)    | 91<br>(2)    | 9<br>(1)     | 61<br>(2)    |
| *                                       | *           | *           | *           | *           | *           | *           | *           | *            | *            | *            | *            | *            | *            | *            |
| PHYLUM CHORDATA<br>Class Thaliacea      | -           | -           | -           | -           | 10<br>(1)   | -           | -           | -            | -            | -            | 3<br>(1)     | -            | -            | -            |
| <i>Dolioletta<br/>gegenbauri</i>        | 21<br>(3)   | 51<br>(4)   | 19<br>(7)   | -           | 126<br>(10) | -           | -           | 2<br>(2)     | 192<br>(8)   | -            | 17<br>(2)    | 9<br>(1)     | 44<br>(2)    | 48<br>(4)    |
| <i>Cyclosalpa affinis</i>               | -           | -           | 2<br>(1)    | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Cyclosalpa bakeri</i>                | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Salpa fusiformis</i>                 | 16<br>(1)   | -           | 2<br>(1)    | -           | 464<br>(2)  | -           | -           | 2<br>(1)     | -            | -            | 8<br>(2)     | -            | -            | 238<br>(1)   |
| <i>Salpa maxima</i>                     | -           | -           | 15<br>(1)   | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Thalia democratica</i>               | -           | -           | 1<br>(1)    | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Thetys vagina</i>                    | -           | -           | 1<br>(1)    | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| Class Larvacea                          | -           | 11<br>(1)   | -           | -           | -           | -           | 59<br>(5)   | -            | -            | -            | -            | -            | -            | -            |

STATION

| 1241<br>(27)    | 1274<br>(23)     | 1299<br>(19)    | 1332<br>(12)     | 1357<br>(11)     | 1390<br>(23)      | 1414<br>(22)     | 1472<br>(12)      | 1529<br>(23)     | 1552<br>(9)      | 1584<br>(12)     | 1607<br>(23)      | 1639<br>(14)     | 1660<br>(25)    | 1709<br>(12)      | 1757<br>(24)     | 1804<br>(14)      | 1819<br>(22) | 1851<br>(25)     | 1865<br>(22) |
|-----------------|------------------|-----------------|------------------|------------------|-------------------|------------------|-------------------|------------------|------------------|------------------|-------------------|------------------|-----------------|-------------------|------------------|-------------------|--------------|------------------|--------------|
| $\frac{750}{1}$ | -                | -               | $\frac{9}{(1)}$  | $\frac{1}{(2)}$  | -                 | -                | -                 | -                | -                | -                | -                 | -                | -               | -                 | $\frac{4}{(2)}$  | $\frac{146}{(4)}$ | -            | $\frac{1}{(1)}$  | -            |
| -               | -                | -               | -                | -                | -                 | -                | $\frac{19}{(1)}$  | $\frac{19}{(1)}$ | -                | $\frac{47}{(1)}$ | $\frac{29}{(1)}$  | -                | -               | $\frac{25}{(1)}$  | -                | -                 | -            | -                | -            |
| -               | $\frac{13}{(2)}$ | -               | $\frac{9}{(1)}$  | -                | $\frac{35}{(1)}$  | $\frac{19}{(1)}$ | $\frac{9}{(1)}$   | $\frac{74}{(3)}$ | $\frac{22}{(1)}$ | $\frac{10}{(4)}$ | $\frac{238}{(1)}$ | $\frac{77}{(1)}$ | -               | $\frac{22}{(2)}$  | $\frac{14}{(2)}$ | -                 | -            | $\frac{20}{(2)}$ | -            |
| -               | $\frac{18}{(3)}$ | -               | $\frac{35}{(1)}$ | -                | $\frac{13}{(3)}$  | -                | $\frac{35}{(4)}$  | $\frac{65}{(3)}$ | -                | $\frac{34}{(5)}$ | $\frac{28}{(5)}$  | $\frac{53}{(4)}$ | -               | $\frac{149}{(1)}$ | $\frac{19}{(3)}$ | -                 | -            | $\frac{40}{(1)}$ | -            |
| *               | *                | *               | *                | *                | *                 | *                | *                 | *                | *                | *                | *                 | *                | *               | *                 | *                | *                 | *            | *                | *            |
| -               | -                | -               | -                | -                | -                 | -                | -                 | -                | -                | $\frac{1}{(1)}$  | -                 | -                | -               | -                 | -                | -                 | -            | -                | -            |
| -               | $\frac{25}{(6)}$ | -               | $\frac{18}{(4)}$ | $\frac{17}{(1)}$ | $\frac{341}{(6)}$ | $\frac{10}{(2)}$ | $\frac{22}{(4)}$  | $\frac{37}{(5)}$ | $\frac{2}{(1)}$  | $\frac{19}{(4)}$ | $\frac{28}{(4)}$  | $\frac{7}{(6)}$  | $\frac{4}{(2)}$ | $\frac{50}{(4)}$  | $\frac{21}{(7)}$ | $\frac{62}{(6)}$  | -            | $\frac{95}{(8)}$ | -            |
| -               | -                | -               | -                | -                | -                 | -                | -                 | -                | -                | -                | -                 | -                | -               | -                 | -                | -                 | -            | -                | -            |
| -               | -                | -               | -                | -                | -                 | $\frac{1}{(1)}$  | $\frac{7}{(1)}$   | -                | -                | -                | -                 | -                | -               | -                 | $\frac{1}{(1)}$  | -                 | -            | $\frac{5}{(1)}$  | -            |
| -               | $\frac{7}{(1)}$  | $\frac{1}{(1)}$ | -                | -                | -                 | -                | $\frac{126}{(2)}$ | -                | -                | -                | -                 | $\frac{22}{(3)}$ | -               | $\frac{1}{(1)}$   | -                | $\frac{1}{(1)}$   | -            | $\frac{9}{(2)}$  | -            |
| -               | -                | -               | -                | -                | -                 | -                | -                 | -                | -                | -                | -                 | -                | -               | -                 | $\frac{27}{(1)}$ | -                 | -            | -                | -            |
| -               | -                | -               | -                | -                | -                 | -                | -                 | -                | -                | -                | -                 | -                | -               | -                 | -                | -                 | -            | $\frac{1}{(1)}$  | -            |
| -               | -                | -               | -                | -                | -                 | -                | -                 | $\frac{2}{(1)}$  | -                | -                | -                 | -                | -               | -                 | -                | -                 | -            | -                | -            |
| -               | -                | -               | -                | -                | -                 | -                | -                 | -                | -                | -                | -                 | -                | -               | -                 | -                | -                 | -            | -                | -            |

Table 1 Cont.

| TAXON                               | STATION     |             |             |             |             |             |             |              |              |              |              |              |              |              |
|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                     | 784<br>(23) | 824<br>(12) | 864<br>(24) | 874<br>(18) | 906<br>(23) | 917<br>(12) | 961<br>(21) | 1007<br>(13) | 1053<br>(18) | 1068<br>(17) | 1100<br>(12) | 1116<br>(14) | 1165<br>(31) | 1216<br>(12) |
| <i>Oikopleura dioica</i>            | 9<br>(2)    | -           | 3<br>(1)    | 372<br>(3)  | 1<br>(1)    | 37<br>(1)   | 14<br>(1)   | 171<br>(2)   | -            | 431<br>(5)   | -            | 12<br>(1)    | 72<br>(1)    | 141<br>(1)   |
| <i>Oikopleura fusiformis</i>        | -           | -           | -           | -           | 1<br>(1)    | -           | -           | 9<br>(1)     | -            | 58<br>(2)    | 9<br>(1)     | 9<br>(1)     | 47<br>(1)    | -            |
| <i>Oikopleura<br/>labradorensis</i> | -           | -           | -           | -           | -           | -           | -           | 9<br>(1)     | 52<br>(1)    | -            | -            | 55<br>(1)    | -            | -            |
| <i>Oikopleura</i> spp.              | 37<br>(9)   | -           | 3<br>(1)    | 372<br>(3)  | 1<br>(1)    | 37<br>(1)   | 14<br>(1)   | 171<br>(2)   | -            | 431<br>(5)   | -            | 12<br>(1)    | 72<br>(1)    | 141<br>(1)   |
| <i>Oikopleura<br/>vanhoffeni</i>    | 86<br>(1)   | 19<br>(1)   | 180<br>(3)  | 33<br>(1)   | 24<br>(4)   | 37<br>(1)   | 15<br>(3)   | 29<br>(1)    | 234<br>(5)   | -            | 171<br>(4)   | 56<br>(3)    | 66<br>(5)    | 79<br>(4)    |
| <i>Fritillaria<br/>borealis</i>     | 9<br>(2)    | 119<br>(1)  | 13<br>(2)   | -           | 32<br>(1)   | -           | -           | -            | -            | -            | 49<br>(3)    | -            | 24<br>(2)    | -            |
| *                                   | *           | *           | *           | *           | *           | *           | *           | *            | *            | *            | *            | *            | *            | *            |
| PHYLUM CHAETOGNATHA                 | 281<br>(11) | 137<br>(8)  | 34<br>(8)   | 474<br>(11) | 29<br>(10)  | 267<br>(9)  | 258<br>(13) | 52<br>(8)    | 82<br>(11)   | 98<br>(9)    | 199<br>(6)   | 469<br>(7)   | 92<br>(16)   | 23<br>(4)    |
| <i>Eukrohnia hamata</i>             | 2<br>(2)    | 41<br>(1)   | -           | -           | 13<br>(1)   | 3<br>(1)    | 4<br>(2)    | 12<br>(1)    | 7<br>(3)     | -            | -            | -            | 7<br>(3)     | 118<br>(1)   |
| <i>Krohnitta subtilis</i>           | -           | -           | -           | -           | -           | -           | -           | -            | -            | -            | -            | -            | -            | -            |
| <i>Sagitta bierii</i>               | 22<br>(4)   | 25<br>(3)   | 46<br>(2)   | 135<br>(2)  | -           | 133<br>(1)  | 158<br>(4)  | 197<br>(4)   | -            | 10<br>(2)    | 8<br>(1)     | 212<br>(1)   | 50<br>(6)    | 38<br>(1)    |
| <i>Sagitta decipiens</i>            | 51<br>(5)   | 32<br>(2)   | 44<br>(7)   | 57<br>(2)   | 27<br>(5)   | 5<br>(1)    | 47<br>(3)   | 82<br>(2)    | 43<br>(5)    | 17<br>(3)    | 41<br>(2)    | 83<br>(2)    | 52<br>(7)    | 360<br>(2)   |
| <i>Sagitta enflata</i>              | 55<br>(5)   | 67<br>(4)   | 67<br>(2)   | 9<br>(3)    | 73<br>(4)   | 9<br>(1)    | 35<br>(3)   | 36<br>(4)    | 210<br>(4)   | 52<br>(1)    | 67<br>(3)    | 32<br>(4)    | 17<br>(7)    | 122<br>(4)   |
| <i>Sagitta euneritica</i>           | 69<br>(7)   | 37<br>(6)   | 36<br>(14)  | 28<br>(4)   | 117<br>(10) | 31<br>(5)   | 128<br>(6)  | 156<br>(7)   | 218<br>(6)   | 150<br>(5)   | 9<br>(5)     | 138<br>(6)   | 137<br>(19)  | 104<br>(6)   |



STATION

| 1241<br>(27)       | 1274<br>(23)      | 1299<br>(19)      | 1332<br>(12)     | 1357<br>(11)      | 1390<br>(23)      | 1414<br>(22)       | 1472<br>(12)      | 1529<br>(23)       | 1552<br>(9)        | 1584<br>(12)      | 1607<br>(23)       | 1639<br>(14)      | 1660<br>(25)       | 1709<br>(12)       | 1757<br>(24)       | 1804<br>(14)       | 1819<br>(22)       | 1851<br>(25)      | 1865<br>(22)       |   |
|--------------------|-------------------|-------------------|------------------|-------------------|-------------------|--------------------|-------------------|--------------------|--------------------|-------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|---|
| $\frac{64}{(6)}$   | -                 | $\frac{113}{(4)}$ | -                | $\frac{18}{(2)}$  | $\frac{583}{(1)}$ | -                  | -                 | $\frac{18}{(1)}$   | $\frac{1263}{(3)}$ | $\frac{24}{(2)}$  | $\frac{296}{(6)}$  | $\frac{9}{(1)}$   | $\frac{9}{(3)}$    | $\frac{9}{(1)}$    | $\frac{5}{(2)}$    | $\frac{13}{(1)}$   | $\frac{141}{(8)}$  | $\frac{24}{(2)}$  | $\frac{195}{(11)}$ |   |
| -                  | -                 | -                 | $\frac{9}{(1)}$  | -                 | $\frac{11}{(1)}$  | -                  | $\frac{7}{(1)}$   | -                  | -                  | -                 | $\frac{17}{(1)}$   | $\frac{484}{(1)}$ | -                  | -                  | -                  | -                  | $\frac{6}{(2)}$    | -                 | $\frac{206}{(3)}$  |   |
| -                  | -                 | -                 | -                | -                 | -                 | -                  | -                 | -                  | -                  | $\frac{9}{(1)}$   | -                  | -                 | -                  | -                  | -                  | -                  | -                  | -                 | $\frac{175}{(1)}$  |   |
| $\frac{658}{(12)}$ | $\frac{114}{(2)}$ | $\frac{176}{(9)}$ | $\frac{64}{(4)}$ | $\frac{77}{(7)}$  | $\frac{80}{(4)}$  | $\frac{152}{(4)}$  | $\frac{47}{(1)}$  | $\frac{156}{(4)}$  | $\frac{175}{(3)}$  | $\frac{69}{(5)}$  | $\frac{58}{(6)}$   | $\frac{225}{(4)}$ | $\frac{13}{(3)}$   | $\frac{1445}{(6)}$ | $\frac{484}{(2)}$  | -                  | $\frac{207}{(9)}$  | $\frac{45}{(2)}$  | $\frac{148}{(9)}$  |   |
| $\frac{88}{(1)}$   | $\frac{45}{(6)}$  | $\frac{87}{(1)}$  | $\frac{28}{(1)}$ | $\frac{35}{(3)}$  | $\frac{37}{(5)}$  | $\frac{36}{(4)}$   | $\frac{119}{(4)}$ | $\frac{65}{(5)}$   | $\frac{28}{(2)}$   | $\frac{26}{(3)}$  | $\frac{140}{(4)}$  | $\frac{222}{(2)}$ | $\frac{50}{(3)}$   | $\frac{497}{(3)}$  | $\frac{333}{(5)}$  | $\frac{1640}{(4)}$ | $\frac{5}{(2)}$    | $\frac{64}{(2)}$  | $\frac{206}{(3)}$  |   |
| -                  | $\frac{14}{(2)}$  | -                 | $\frac{16}{(1)}$ | -                 | -                 | -                  | $\frac{29}{(2)}$  | $\frac{19}{(2)}$   | -                  | -                 | $\frac{9}{(1)}$    | $\frac{9}{(1)}$   | -                  | $\frac{23}{(2)}$   | -                  | $\frac{142}{(2)}$  | -                  | -                 | -                  |   |
| *                  | *                 | *                 | *                | *                 | *                 | *                  | *                 | *                  | *                  | *                 | *                  | *                 | *                  | *                  | *                  | *                  | *                  | *                 | *                  | * |
| $\frac{44}{(9)}$   | $\frac{81}{(8)}$  | $\frac{172}{(8)}$ | $\frac{26}{(8)}$ | $\frac{205}{(9)}$ | $\frac{52}{(13)}$ | $\frac{146}{(11)}$ | $\frac{413}{(6)}$ | $\frac{114}{(11)}$ | $\frac{217}{(4)}$  | $\frac{168}{(6)}$ | $\frac{375}{(11)}$ | $\frac{30}{(10)}$ | $\frac{154}{(10)}$ | $\frac{340}{(9)}$  | $\frac{103}{(12)}$ | $\frac{37}{(4)}$   | $\frac{248}{(12)}$ | $\frac{25}{(8)}$  | $\frac{803}{(12)}$ |   |
| -                  | $\frac{4}{(4)}$   | -                 | $\frac{1}{(2)}$  | $\frac{7}{(1)}$   | $\frac{4}{(2)}$   | $\frac{12}{(1)}$   | $\frac{2}{(1)}$   | $\frac{54}{(2)}$   | -                  | $\frac{18}{(1)}$  | $\frac{13}{(3)}$   | $\frac{24}{(1)}$  | $\frac{15}{(5)}$   | -                  | $\frac{43}{(2)}$   | $\frac{1}{(1)}$    | $\frac{9}{(3)}$    | -                 | $\frac{20}{(3)}$   |   |
| -                  | -                 | -                 | -                | -                 | -                 | -                  | -                 | -                  | -                  | -                 | -                  | -                 | -                  | -                  | -                  | -                  | $\frac{9}{(1)}$    | -                 | -                  |   |
| $\frac{28}{(2)}$   | $\frac{25}{(4)}$  | -                 | $\frac{70}{(1)}$ | -                 | $\frac{72}{(3)}$  | $\frac{70}{(5)}$   | $\frac{151}{(3)}$ | $\frac{127}{(3)}$  | -                  | $\frac{9}{(1)}$   | $\frac{49}{(7)}$   | $\frac{38}{(1)}$  | $\frac{86}{(11)}$  | $\frac{143}{(1)}$  | $\frac{60}{(7)}$   | $\frac{537}{(4)}$  | $\frac{60}{(4)}$   | $\frac{14}{(5)}$  | $\frac{45}{(2)}$   |   |
| $\frac{1}{(1)}$    | $\frac{65}{(8)}$  | $\frac{9}{(3)}$   | $\frac{8}{(2)}$  | $\frac{2}{(1)}$   | $\frac{64}{(7)}$  | $\frac{44}{(8)}$   | $\frac{64}{(2)}$  | $\frac{65}{(7)}$   | -                  | $\frac{197}{(1)}$ | $\frac{84}{(3)}$   | $\frac{64}{(2)}$  | $\frac{72}{(10)}$  | $\frac{149}{(1)}$  | $\frac{47}{(7)}$   | $\frac{36}{(2)}$   | $\frac{59}{(7)}$   | $\frac{35}{(5)}$  | $\frac{27}{(8)}$   |   |
| -                  | $\frac{158}{(4)}$ | $\frac{9}{(1)}$   | $\frac{41}{(3)}$ | $\frac{30}{(3)}$  | $\frac{176}{(2)}$ | $\frac{37}{(3)}$   | $\frac{66}{(4)}$  | $\frac{43}{(3)}$   | $\frac{7}{(1)}$    | $\frac{12}{(1)}$  | $\frac{18}{(3)}$   | $\frac{43}{(2)}$  | $\frac{12}{(2)}$   | $\frac{57}{(2)}$   | $\frac{50}{(3)}$   | $\frac{200}{(3)}$  | $\frac{19}{(2)}$   | $\frac{7}{(2)}$   | $\frac{47}{(3)}$   |   |
| $\frac{37}{(11)}$  | $\frac{30}{(8)}$  | $\frac{89}{(7)}$  | $\frac{5}{(6)}$  | $\frac{89}{(5)}$  | $\frac{31}{(7)}$  | $\frac{52}{(14)}$  | $\frac{28}{(3)}$  | $\frac{71}{(8)}$   | $\frac{28}{(2)}$   | $\frac{131}{(5)}$ | $\frac{59}{(9)}$   | $\frac{301}{(6)}$ | $\frac{380}{(9)}$  | $\frac{112}{(4)}$  | $\frac{51}{(7)}$   | $\frac{288}{(5)}$  | $\frac{180}{(8)}$  | $\frac{17}{(11)}$ | $\frac{494}{(11)}$ |   |

Table 1 Cont.

| TAXON                    | STATION            |                    |                    |                    |                    |                    |                    |                     |                     |                     |                     |                     |                     |                     |
|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                          | <u>784</u><br>(23) | <u>824</u><br>(12) | <u>864</u><br>(24) | <u>874</u><br>(18) | <u>906</u><br>(23) | <u>917</u><br>(12) | <u>961</u><br>(21) | <u>1007</u><br>(13) | <u>1053</u><br>(18) | <u>1068</u><br>(17) | <u>1100</u><br>(12) | <u>1116</u><br>(14) | <u>1165</u><br>(31) | <u>1216</u><br>(12) |
| <i>Sagitta hexaptera</i> | -                  | -                  | -                  | -                  | -                  | -                  | -                  | -                   | -                   | -                   | $\frac{38}{(1)}$    | -                   | $\frac{1}{(1)}$     | -                   |
| <i>Sagitta minima</i>    | -                  | -                  | -                  | -                  | -                  | -                  | -                  | -                   | -                   | -                   | $\frac{28}{(1)}$    | -                   | -                   | -                   |
| <i>Sagitta scrippsae</i> | $\frac{17}{(4)}$   | $\frac{4}{(1)}$    | $\frac{6}{(6)}$    | -                  | $\frac{14}{(3)}$   | $\frac{1}{(1)}$    | $\frac{11}{(2)}$   | $\frac{4}{(2)}$     | $\frac{2}{(2)}$     | -                   | $\frac{3}{(1)}$     | $\frac{1}{(1)}$     | $\frac{8}{(8)}$     | -                   |
| <i>Sagitta zetesios</i>  | -                  | -                  | $\frac{104}{(1)}$  | -                  | -                  | -                  | -                  | -                   | $\frac{123}{(2)}$   | $\frac{73}{(2)}$    | $\frac{88}{(1)}$    | $\frac{251}{(1)}$   | $\frac{234}{(2)}$   | $\frac{88}{(1)}$    |
|                          |                    |                    |                    |                    |                    |                    |                    |                     |                     |                     |                     |                     |                     |                     |
|                          |                    |                    |                    |                    |                    |                    |                    |                     |                     |                     |                     |                     |                     |                     |
|                          |                    |                    |                    |                    |                    |                    |                    |                     |                     |                     |                     |                     |                     |                     |
|                          |                    |                    |                    |                    |                    |                    |                    |                     |                     |                     |                     |                     |                     |                     |
|                          |                    |                    |                    |                    |                    |                    |                    |                     |                     |                     |                     |                     |                     |                     |
|                          |                    |                    |                    |                    |                    |                    |                    |                     |                     |                     |                     |                     |                     |                     |
|                          |                    |                    |                    |                    |                    |                    |                    |                     |                     |                     |                     |                     |                     |                     |
|                          |                    |                    |                    |                    |                    |                    |                    |                     |                     |                     |                     |                     |                     |                     |
|                          |                    |                    |                    |                    |                    |                    |                    |                     |                     |                     |                     |                     |                     |                     |
|                          |                    |                    |                    |                    |                    |                    |                    |                     |                     |                     |                     |                     |                     |                     |
|                          |                    |                    |                    |                    |                    |                    |                    |                     |                     |                     |                     |                     |                     |                     |

STATION

| <u>1241</u><br>(27) | <u>1274</u><br>(23) | <u>1299</u><br>(19) | <u>1332</u><br>(12) | <u>1357</u><br>(11) | <u>1390</u><br>(23) | <u>1414</u><br>(22) | <u>1472</u><br>(12) | <u>1529</u><br>(23) | <u>1552</u><br>(9) | <u>1584</u><br>(12) | <u>1607</u><br>(23) | <u>1639</u><br>(14) | <u>1660</u><br>(25) | <u>1709</u><br>(12) | <u>1757</u><br>(24) | <u>1804</u><br>(14) | <u>1819</u><br>(22) | <u>1851</u><br>(25) | <u>1865</u><br>(22) |
|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                  | -                   | -                   | $\frac{1}{(1)}$     | -                   | -                   | -                   | -                   | -                   | -                   | $\frac{3}{(1)}$     |
| -                   | -                   | -                   | $\frac{1}{(1)}$     | -                   | -                   | -                   | -                   | -                   | -                  | $\frac{20}{(1)}$    | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   |
| -                   | $\frac{3}{(6)}$     | $\frac{1}{(1)}$     | $\frac{1}{(1)}$     | -                   | $\frac{8}{(5)}$     | $\frac{20}{(8)}$    | $\frac{19}{(1)}$    | $\frac{24}{(5)}$    | -                  | $\frac{18}{(2)}$    | $\frac{17}{(7)}$    | $\frac{6}{(2)}$     | $\frac{43}{(4)}$    | $\frac{60}{(1)}$    | $\frac{10}{(4)}$    | $\frac{8}{(3)}$     | $\frac{66}{(3)}$    | $\frac{8}{(5)}$     | $\frac{8}{(3)}$     |
| -                   | -                   | -                   | $\frac{2}{(1)}$     | -                   | -                   | -                   | -                   | -                   | -                  | -                   | -                   | -                   | -                   | -                   | -                   | -                   | -                   | $\frac{28}{(1)}$    | $\frac{716}{(2)}$   |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |
|                     |                     |                     |                     |                     |                     |                     |                     |                     |                    |                     |                     |                     |                     |                     |                     |                     |                     |                     |                     |

Table 2. A Checklist of Zooplankters from off Northern California.

| TAXON                                    | TRANSECT  |            |           |           |           |           |           |           |           |            |            |  |  |  |  |  |  |
|--|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|--|--|--|--|--|--|
|  | 1<br>(11) | 2<br>(15)  | 3<br>(4)  | 4<br>(5)  | 5<br>(3)  | 6<br>(3)  | 7<br>(11) | 8<br>(5)  | 9<br>(9)  | 10<br>(15) | 11<br>(15) |  |  |  |  |  |  |
| PHYLUM COELENTERATA                      |           |            |           |           |           |           |           |           |           |            |            |  |  |  |  |  |  |
| Class Hydrozoa                           |           |            |           |           |           |           |           |           |           |            |            |  |  |  |  |  |  |
| Order Trachylina                         |           |            |           |           |           |           |           |           |           |            |            |  |  |  |  |  |  |
| medusa                                   | 8<br>(7)  | 5<br>(11)  | <1<br>(1) | 7<br>(4)  | 4<br>(2)  | 1<br>(3)  | 6<br>(8)  | 4<br>(4)  | 2<br>(4)  | 6<br>(7)   | 18<br>(8)  |  |  |  |  |  |  |
| <i>Liriope tetraphylla</i>               | 1<br>(4)  | -          | -         | 2<br>(1)  | -         | -         | -         | -         | -         | 6<br>(5)   | 9<br>(5)   |  |  |  |  |  |  |
| Order Siphonophora                       | 3<br>(2)  | -          | -         | -         | -         | -         | -         | -         | -         | -          | -          |  |  |  |  |  |  |
| Calycophora                              | 4<br>(3)  | 4<br>(4)   | 1<br>(1)  | 9<br>(2)  | -         | -         | 1<br>(3)  | -         | -         | 6<br>(7)   | 5<br>(7)   |  |  |  |  |  |  |
| Globular Calycophora                     | -         | -          | -         | -         | -         | -         | -         | -         | -         | <1<br>(1)  | <1<br>(1)  |  |  |  |  |  |  |
| <i>Chelophyes appendiculata</i>          | 3<br>(9)  | 3<br>(13)  | 3<br>(5)  | <1<br>(1) | <1<br>(1) | 3<br>(8)  | 3<br>(4)  | 2<br>(6)  | 2<br>(10) | 3<br>(16)  | -          |  |  |  |  |  |  |
| <i>Eudoxoides spiralis</i>               | 9<br>(1)  | 1<br>(1)   | -         | -         | -         | 1<br>(1)  | -         | -         | -         | -          | -          |  |  |  |  |  |  |
| <i>Hippopodius</i> sp.<br>(nectophore)   | <1<br>(3) | 1<br>(3)   | 1<br>(1)  | 3<br>(1)  | -         | -         | <1<br>(1) | 1<br>(1)  | -         | -          | -          |  |  |  |  |  |  |
| <i>Lensia challengerii</i>               | -         | 13<br>(1)  | -         | -         | -         | -         | -         | <1<br>(1) | -         | -          | -          |  |  |  |  |  |  |
| <i>Lensia conoidea</i>                   | 3<br>(7)  | 2<br>(6)   | 2<br>(3)  | 4<br>(4)  | 4<br>(3)  | 6<br>(3)  | 4<br>(5)  | 2<br>(2)  | 4<br>(1)  | 1<br>(7)   | 4<br>(4)   |  |  |  |  |  |  |
| <sup>α</sup> <i>Lensia fowleri</i>       | -         | -          | -         | -         | <1<br>(1) | <1<br>(1) | <1<br>(3) | -         | -         | -          | -          |  |  |  |  |  |  |
| <sup>α</sup> <i>Lensia hotspur</i>       | -         | -          | -         | -         | -         | -         | <1<br>(2) | -         | -         | -          | -          |  |  |  |  |  |  |
| <sup>α</sup> <i>Lensia multicristata</i> | -         | -          | -         | -         | -         | -         | 1<br>(3)  | -         | -         | -          | -          |  |  |  |  |  |  |
| <i>Muggiaea atlantica</i>                | 6<br>(10) | 11<br>(11) | 1<br>(1)  | 26<br>(3) | -         | 1<br>(1)  | 2<br>(8)  | 14<br>(3) | 5<br>(2)  | 3<br>(4)   | 1<br>(1)   |  |  |  |  |  |  |

<sup>α</sup>Only identified for some stations.

TRANSECT

| TAXON   | 1<br>(11)  | 2<br>(15)  | 3<br>(4)  | 4<br>(5)  | 5<br>(3)  | 6<br>(3)  | 7<br>(11)  | 8<br>(5)  | 9<br>(9)  | 10<br>(15) | 11<br>(15) |  |  |  |
|---|------------|------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|------------|------------|--|--|--|
| <i>Nanomia bijuga</i>   | 3<br>(11)  | 4<br>(10)  | 3<br>(2)  | 6<br>(4)  | 24<br>(3) | 5<br>(3)  | 3<br>(9)   | 2<br>(4)  | 6<br>(8)  | 10<br>(12) | 46<br>(12) |  |  |  |
| <i>Sulculeolaria</i> sp.  | -          | <1<br>(1)  | -         | -         | -         | -         | -          | -         | -         | -          | -          |  |  |  |
| Order Hydroida<br>Suborder Chondrophora<br><i>velella velella</i> | 1<br>(2)   | <1<br>(2)  | <1<br>(1) | <1<br>(1) | -         | -         | -          | -         | 5<br>(5)  | 1<br>(2)   | 3<br>(1)   |  |  |  |
| *   | *          | *          | *         | *         | *         | *         | *          | *         | *         | *          | *          |  |  |  |
| PHYLUM CTENOPHORA   | -          | 3<br>(1)   | -         | -         | -         | -         | -          | -         | -         | 2<br>(2)   | 3<br>(4)   |  |  |  |
| <i>Pleurobrachia bachei</i>                                       | -          | -          | 34<br>(1) | -         | -         | 1<br>(1)  | 1<br>(1)   | -         | <1<br>(1) | 14<br>(4)  | 82<br>(2)  |  |  |  |
| *   | *          | *          | *         | *         | *         | *         | *          | *         | *         | *          | *          |  |  |  |
| PHYLUM ANNELIDA<br>Class Polychaeta                               | 2<br>(3)   | 1<br>(3)   | -         | 6<br>(2)  | -         | 1<br>(1)  | 1<br>(4)   | 4<br>(1)  | 1<br>(5)  | 3<br>(1)   | 3<br>(2)   |  |  |  |
| unidentified larva  | -          | -          | -         | -         | -         | -         | -          | -         | 2<br>(2)  | -          | 43<br>(2)  |  |  |  |
| <i>Ampharetidae</i>   | 5<br>(7)   | 3<br>(7)   | 1<br>(1)  | 4<br>(5)  | 5<br>(2)  | 1<br>(1)  | 5<br>(9)   | 3<br>(4)  | 11<br>(7) | 19<br>(8)  | 15<br>(9)  |  |  |  |
| <i>Tomopteris septentrionalis</i>                                 | 37<br>(10) | 52<br>(12) | 5<br>(1)  | 85<br>(4) | 2<br>(3)  | 12<br>(3) | 40<br>(11) | 30<br>(4) | 29<br>(6) | 12<br>(11) | 18<br>(13) |  |  |  |
| *   | *          | *          | *         | *         | *         | *         | *          | *         | *         | *          | *          |  |  |  |
| PHYLUM MOLLUSCA<br>Class Gastropoda                               | -          | -          | -         | -         | -         | 1<br>(1)  | -          | -         | -         | -          | -          |  |  |  |
| Gastropoda veliger  | -          | 2<br>(2)   | 2<br>(2)  | 6<br>(1)  | -         | <1<br>(1) | 22<br>(6)  | 5<br>(2)  | 6<br>(6)  | 4<br>(2)   | 188<br>5   |  |  |  |

Table 2 Cont.

| TAXON  | TRANSECT   |            |          |           |            |           |           |           |           |            |            |  |  |  |
|--|------------|------------|----------|-----------|------------|-----------|-----------|-----------|-----------|------------|------------|--|--|--|
|  | 1<br>(11)  | 2<br>(15)  | 3<br>(4) | 4<br>(5)  | 5<br>(3)   | 6<br>(3)  | 7<br>(11) | 8<br>(5)  | 9<br>(9)  | 10<br>(15) | 11<br>(15) |  |  |  |
| Order Heteropoda                                   | -          | -          | -        | -         | -          | -         | -         | -         | 1<br>(1)  | -          | -          |  |  |  |
| <i>Atlanta peroni</i>                              | 1<br>(1)   | 3<br>(3)   | -        | 3<br>(1)  | 1<br>(1)   | -         | <1<br>(3) | -         | -         | 3<br>(2)   | 3<br>(1)   |  |  |  |
| <i>Carinaria cristata</i><br><i>forma japonica</i> | 2<br>(6)   | 1<br>(8)   | -        | 1<br>(4)  | -          | -         | 2<br>(2)  | -         | 2<br>(2)  | 1<br>(4)   | <1<br>(5)  |  |  |  |
| <i>Pterotrachea coronata</i>                       | -          | -          | -        | -         | -          | -         | -         | <1<br>(1) | -         | -          | -          |  |  |  |
| Pteropoda  |            |            |          |           |            |           |           |           |           |            |            |  |  |  |
| Order Gymnosomata<br><i>Clio limacina</i>          | 5<br>(8)   | 2<br>(5)   | 1<br>(2) | 5<br>(2)  | 2<br>(2)   | <1<br>(1) | 1<br>(4)  | <1<br>(1) | 6<br>(1)  | 1<br>(2)   | -          |  |  |  |
| Order Thecosomata<br><i>Clio balantium</i>         | -          | 2<br>(3)   | -        | -         | -          | -         | 1<br>(3)  | -         | -         | <1<br>(2)  | -          |  |  |  |
| <i>Clio pyramidata</i>                             | 5<br>(7)   | 15<br>(1)  | -        | 3<br>(5)  | <1<br>(1)  | -         | 1<br>(5)  | -         | -         | -          | 4<br>(2)   |  |  |  |
| <i>Corolla spectabilis</i>                         | 7<br>(8)   | 8<br>(13)  | 1<br>(1) | 3<br>(5)  | 2<br>(2)   | <1<br>(3) | 4<br>(6)  | 6<br>(2)  | 2<br>(4)  | 3<br>(10)  | 3<br>(8)   |  |  |  |
| <i>Desmopterus pacificus</i>                       | -          | -          | -        | -         | -          | -         | -         | -         | -         | -          | <1<br>(1)  |  |  |  |
| <i>Limacina</i> spp.                               | 37<br>(10) | 20<br>(13) | 7<br>(4) | 17<br>(5) | 147<br>(3) | 15<br>(3) | 39<br>(7) | 22<br>(2) | 5<br>(1)  | 6<br>(6)   | 5<br>(3)   |  |  |  |
| Class Cephalopoda<br>squid immature                | 3<br>(2)   | 4<br>(6)   | -        | 2<br>(1)  | -          | -         | 1<br>(5)  | 2<br>(3)  | 3<br>(2)  | 1<br>(3)   | 3<br>(1)   |  |  |  |
| <i>Chiroteuthis veranyi</i><br>doratopsis larva    | 1<br>(2)   | <1<br>(1)  | -        | <1<br>(1) | -          | -         | <1<br>(2) | -         | -         | -          | -          |  |  |  |
| octopus immature                                   | 3<br>(3)   | 2<br>(3)   | 1<br>(1) | 4<br>(2)  | 1<br>(2)   | 1<br>(1)  | 3<br>(4)  | -         | <1<br>(2) | -          | 3<br>(3)   |  |  |  |
| *  | *          | *          | *        | *         | *          | *         | *         | *         | *         | *          | *          |  |  |  |

TRANSECT

| TAXON                                 | 1<br>(11)    | 2<br>(15)    | 3<br>(4)   | 4<br>(5)   | 5<br>(3)   | 6<br>(3)  | 7<br>(11)   | 8<br>(5)   | 9<br>(9)  | 10<br>(15) | 11<br>(15)   |  |  |  |
|---------------------------------------|--------------|--------------|------------|------------|------------|-----------|-------------|------------|-----------|------------|--------------|--|--|--|
| PHYLUM ARTHROPODA                     |              |              |            |            |            |           |             |            |           |            |              |  |  |  |
| Class Crustacea                       |              |              |            |            |            |           |             |            |           |            |              |  |  |  |
| Subclass Ostracoda                    |              |              |            |            |            |           |             |            |           |            |              |  |  |  |
| <i>Conchoecia daphnoides</i>          | 5<br>(2)     | -            | -          | -          | -          | -         | -           | -          | -         | -          | -            |  |  |  |
| <i>Conchoecia</i> spp.                | 21<br>(8)    | 9<br>(10)    | 7<br>(3)   | 18<br>(5)  | 4<br>(3)   | 8<br>(3)  | 16<br>(11)  | 14<br>(4)  | 7<br>(6)  | 10<br>(8)  | 7<br>(9)     |  |  |  |
| Subclass Copepoda                     |              |              |            |            |            |           |             |            |           |            |              |  |  |  |
| Order Calanoida                       |              |              |            |            |            |           |             |            |           |            |              |  |  |  |
| <sup>β</sup> <i>Acartia clausi</i>    | -            | -            | -          | -          | -          | -         | -           | -          | -         | 4<br>(1)   | 83<br>(1)    |  |  |  |
| <i>Amalophora vorax</i>               | <1<br>(1)    | 4<br>(1)     | 1<br>(1)   | <1<br>(1)  | -          | 6<br>(1)  | 3<br>(5)    | <1<br>(1)  | -         | -          | -            |  |  |  |
| <i>Arietellus setosus</i>             | <1<br>(1)    | -            | -          | <1<br>(1)  | -          | -         | <1<br>(3)   | 2<br>(1)   | -         | -          | 3<br>(1)     |  |  |  |
| <i>Calanus cristatus</i>              | 47<br>(10)   | 54<br>(13)   | 5<br>(2)   | 32<br>(5)  | 9<br>(3)   | 5<br>(2)  | 9<br>(9)    | 24<br>(4)  | 5<br>(3)  | 6<br>(5)   | -            |  |  |  |
| <sup>β</sup> <i>Calanus pacificus</i> | 17<br>(6)    | 21<br>(11)   | 3<br>(3)   | 16<br>(5)  | 3<br>(3)   | 15<br>(2) | 34<br>(9)   | 25<br>(3)  | 41<br>(8) | 71<br>(15) | 1878<br>(13) |  |  |  |
| <i>Calanus plumchrus</i>              | 1200<br>(11) | 1615<br>(15) | 116<br>(4) | 574<br>(5) | 104<br>(3) | 45<br>(3) | 151<br>(11) | 441<br>(4) | 16<br>(7) | 22<br>(12) | 57<br>(7)    |  |  |  |
| <i>Candacia bipinnata</i>             | 9<br>(8)     | 12<br>(11)   | 5<br>(1)   | 10<br>(4)  | -          | 3<br>(1)  | 2<br>(10)   | 2<br>(4)   | 4<br>(8)  | 8<br>(11)  | 17<br>(6)    |  |  |  |
| <i>Candacia columbiae</i>             | 34<br>(3)    | -            | -          | -          | <1<br>(1)  | -         | 1<br>(2)    | -          | -         | -          | -            |  |  |  |
| <i>Centraugaptilus macrodus</i>       | -            | -            | <1<br>(1)  | -          | -          | -         | -           | -          | -         | -          | -            |  |  |  |
| <i>Chirundina streetsi</i>            | -            | -            | -          | 1<br>(3)   | -          | -         | -           | -          | -         | -          | 10<br>(2)    |  |  |  |
| <i>Epilabidocera longipedata</i>      | -            | -            | -          | -          | -          | -         | -           | -          | 2<br>(1)  | -          | 8<br>(1)     |  |  |  |

<sup>β</sup>Evidence from samples taken with a .505-mm mesh plankton net suggests that numbers are lost with the use of a 1-mm mesh net. Only a portion of the total adult individuals are caught with the 1-mm mesh size.

Table 2 Cont.

| TAXON                        | TRANSECT           |                    |                  |                   |                  |                   |                    |                   |                  |                   |                    |  |  |  |
|------------------------------|--------------------|--------------------|------------------|-------------------|------------------|-------------------|--------------------|-------------------|------------------|-------------------|--------------------|--|--|--|
|                              | 1<br>(11)          | 2<br>(15)          | 3<br>(4)         | 4<br>(5)          | 5<br>(3)         | 6<br>(3)          | 7<br>(11)          | 8<br>(5)          | 9<br>(9)         | 10<br>(15)        | 11<br>(15)         |  |  |  |
| <i>Eucalanus attenuatus</i>  | $\frac{4}{(1)}$    | $\frac{4}{(1)}$    | -                | -                 | -                | -                 | $\frac{<1}{(1)}$   | -                 | -                | $\frac{2}{(2)}$   | -                  |  |  |  |
| <i>Eucalanus bungii</i>      | $\frac{124}{(9)}$  | $\frac{48}{(13)}$  | $\frac{60}{(4)}$ | $\frac{221}{(5)}$ | $\frac{74}{(3)}$ | $\frac{350}{(3)}$ | $\frac{147}{(11)}$ | $\frac{165}{(4)}$ | $\frac{69}{(8)}$ | $\frac{56}{(15)}$ | $\frac{104}{(14)}$ |  |  |  |
| <i>Euchaeta acuta</i>        | $\frac{19}{(10)}$  | $\frac{13}{(10)}$  | $\frac{7}{(4)}$  | $\frac{18}{(5)}$  | $\frac{3}{(3)}$  | $\frac{14}{(3)}$  | $\frac{17}{(11)}$  | $\frac{16}{(4)}$  | $\frac{10}{(4)}$ | $\frac{6}{(8)}$   | $\frac{11}{(4)}$   |  |  |  |
| <i>Euchaeta japonica</i>     | $\frac{10}{(9)}$   | $\frac{7}{(4)}$    | $\frac{3}{(1)}$  | $\frac{15}{(4)}$  | $\frac{5}{(1)}$  | $\frac{3}{(2)}$   | $\frac{12}{(7)}$   | $\frac{8}{(2)}$   | $\frac{9}{(4)}$  | $\frac{7}{(7)}$   | $\frac{13}{(7)}$   |  |  |  |
| <i>Euchaeta spinosa</i>      | $\frac{5}{(2)}$    | $\frac{2}{(2)}$    | $\frac{<1}{(1)}$ | $\frac{3}{(1)}$   | -                | -                 | $\frac{2}{(4)}$    | $\frac{7}{(2)}$   | $\frac{1}{(1)}$  | $\frac{2}{(2)}$   | $\frac{<1}{(1)}$   |  |  |  |
| <i>Euchirella curticauda</i> | $\frac{2}{(2)}$    | $\frac{3}{(1)}$    | -                | $\frac{4}{(3)}$   | $\frac{1}{(2)}$  | $\frac{20}{(1)}$  | $\frac{4}{(7)}$    | $\frac{4}{(1)}$   | $\frac{11}{(5)}$ | $\frac{4}{(2)}$   | -                  |  |  |  |
| <i>Euchirella galeata</i>    | $\frac{5}{(6)}$    | $\frac{3}{(2)}$    | $\frac{2}{(1)}$  | $\frac{19}{(2)}$  | -                | $\frac{1}{(1)}$   | $\frac{4}{(5)}$    | $\frac{1}{(1)}$   | -                | $\frac{8}{(5)}$   | $\frac{6}{(5)}$    |  |  |  |
| <i>Euchirella pulchra</i>    | $\frac{16}{(8)}$   | $\frac{6}{(4)}$    | $\frac{2}{(1)}$  | $\frac{38}{(4)}$  | $\frac{8}{(2)}$  | $\frac{14}{(1)}$  | $\frac{29}{(7)}$   | $\frac{18}{(3)}$  | $\frac{14}{(6)}$ | $\frac{34}{(5)}$  | $\frac{27}{(9)}$   |  |  |  |
| <i>Euchirella rostrata</i>   | $\frac{149}{(10)}$ | $\frac{124}{(13)}$ | $\frac{22}{(1)}$ | $\frac{186}{(5)}$ | $\frac{14}{(3)}$ | $\frac{36}{(3)}$  | $\frac{118}{(11)}$ | $\frac{134}{(4)}$ | $\frac{22}{(8)}$ | $\frac{20}{(11)}$ | $\frac{25}{(9)}$   |  |  |  |
| <i>Euchirella</i> spp.       | -                  | $\frac{6}{(1)}$    | -                | -                 | -                | -                 | -                  | -                 | -                | -                 | -                  |  |  |  |
| <i>Gaetanus minor</i>        | $\frac{4}{(1)}$    | -                  | -                | -                 | -                | -                 | -                  | -                 | -                | -                 | -                  |  |  |  |
| <i>Gaetanus</i> sp.          | -                  | -                  | -                | -                 | -                | -                 | $\frac{1}{(1)}$    | -                 | -                | -                 | -                  |  |  |  |
| <i>Gaetanus</i> spp.         | $\frac{<1}{(1)}$   | -                  | -                | -                 | -                | -                 | -                  | -                 | -                | -                 | -                  |  |  |  |
| <i>Gaetanus unicornis</i>    | -                  | -                  | -                | -                 | -                | -                 | $\frac{1}{(1)}$    | -                 | -                | -                 | -                  |  |  |  |



TRANSECT

| TAXON  | 1<br>(11)         | 2<br>(15)        | 3<br>(4)         | 4<br>(5)         | 5<br>(3)         | 6<br>(3)         | 7<br>(11)        | 8<br>(5)         | 9<br>(9)         | 10<br>(15)       | 11<br>(15)        |  |  |  |
|--|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|--|--|--|
| <i>Gaidius pungens</i>                       | $\frac{9}{(6)}$   | -                | -                | $\frac{16}{(3)}$ | $\frac{3}{(1)}$  | $\frac{14}{(1)}$ | $\frac{28}{(7)}$ | $\frac{43}{(1)}$ | $\frac{19}{(3)}$ | $\frac{17}{(7)}$ | $\frac{8}{(5)}$   |  |  |  |
| <i>Gaussia princeps</i>                      | -                 | -                | -                | $\frac{<1}{(1)}$ | -                | -                | -                | -                | -                | -                | -                 |  |  |  |
| <sup>β</sup> <i>Heterorhabdus papilliger</i> | $\frac{16}{(8)}$  | $\frac{11}{(8)}$ | $\frac{3}{(3)}$  | $\frac{6}{(1)}$  | $\frac{2}{(2)}$  | $\frac{5}{(3)}$  | $\frac{3}{(8)}$  | $\frac{8}{(2)}$  | $\frac{2}{(3)}$  | $\frac{4}{(3)}$  | -                 |  |  |  |
| <i>Heterorhabdus spinifrons</i>              | -                 | -                | -                | $\frac{3}{(1)}$  | -                | -                | -                | -                | -                | -                | -                 |  |  |  |
| <i>Heterorhabdus tanneri</i>                 | $\frac{7}{(3)}$   | $\frac{5}{(3)}$  | -                | -                | -                | $\frac{1}{(1)}$  | $\frac{1}{(2)}$  | -                | -                | -                | -                 |  |  |  |
| <i>Heterostylites longicornis</i>            | $\frac{4}{(2)}$   | -                | -                | -                | -                | $\frac{3}{(1)}$  | $\frac{<1}{(2)}$ | -                | $\frac{<1}{(1)}$ | $\frac{1}{(3)}$  | -                 |  |  |  |
| <i>Heterostylites major</i>                  | -                 | -                | -                | -                | -                | -                | $\frac{<1}{(2)}$ | -                | -                | -                | -                 |  |  |  |
| <i>Lophothrix frontalis</i>                  | $\frac{<1}{(1)}$  | -                | -                | $\frac{5}{(2)}$  | $\frac{<1}{(1)}$ | -                | $\frac{1}{(5)}$  | -                | $\frac{2}{(1)}$  | $\frac{4}{(4)}$  | $\frac{3}{(4)}$   |  |  |  |
| <sup>β</sup> <i>Metridia lucens</i>          | $\frac{6}{(3)}$   | $\frac{8}{(5)}$  | $\frac{<1}{(1)}$ | $\frac{8}{(4)}$  | $\frac{6}{(3)}$  | $\frac{2}{(2)}$  | $\frac{14}{(4)}$ | $\frac{16}{(2)}$ | $\frac{2}{(4)}$  | $\frac{8}{(4)}$  | $\frac{278}{(7)}$ |  |  |  |
| <i>Metridia princeps</i>                     | -                 | -                | -                | -                | -                | -                | $\frac{<1}{(1)}$ | -                | -                | -                | -                 |  |  |  |
| <i>Pleuromamma abdominalis</i>               | $\frac{20}{(10)}$ | $\frac{3}{(4)}$  | $\frac{2}{(2)}$  | $\frac{94}{(4)}$ | $\frac{10}{(2)}$ | $\frac{71}{(2)}$ | $\frac{42}{(5)}$ | $\frac{30}{(2)}$ | $\frac{40}{(3)}$ | $\frac{32}{(7)}$ | $\frac{22}{(6)}$  |  |  |  |
| <i>Pleuromamma quadrangulata</i>             | $\frac{10}{(3)}$  | -                | -                | $\frac{8}{(3)}$  | -                | $\frac{3}{(1)}$  | $\frac{6}{(4)}$  | -                | $\frac{46}{(1)}$ | $\frac{8}{(4)}$  | $\frac{24}{(3)}$  |  |  |  |
| <i>Pleuromamma sp.</i>                       | -                 | $\frac{3}{(1)}$  | -                | -                | -                | -                | -                | -                | -                | -                | -                 |  |  |  |
| <i>Pleuromamma xiphias</i>                   | $\frac{30}{(7)}$  | $\frac{5}{(2)}$  | -                | $\frac{28}{(3)}$ | $\frac{3}{(2)}$  | $\frac{11}{(1)}$ | $\frac{48}{(7)}$ | $\frac{12}{(2)}$ | $\frac{22}{(5)}$ | $\frac{11}{(7)}$ | $\frac{12}{(7)}$  |  |  |  |

Table 2 Cont.

| TAXON  | TRANSECT  |           |           |           |           |           |            |           |           |            |            |  |  |  |
|--|-----------|-----------|-----------|-----------|-----------|-----------|------------|-----------|-----------|------------|------------|--|--|--|
|  | 1<br>(11) | 2<br>(15) | 3<br>(4)  | 4<br>(5)  | 5<br>(3)  | 6<br>(3)  | 7<br>(11)  | 8<br>(5)  | 9<br>(9)  | 10<br>(15) | 11<br>(15) |  |  |  |
| <i>Rhincalanus nasutus</i>                               | 23<br>(8) | 11<br>(8) | 17<br>(4) | 14<br>(3) | 13<br>(3) | 35<br>(3) | 14<br>(11) | 40<br>(4) | 19<br>(8) | 15<br>(11) | 50<br>(10) |  |  |  |
| <i>Scolecithrix</i> sp.                                  | <1<br>(1) | -         | 2<br>(1)  | -         | -         | -         | -          | <1<br>(1) | -         | -          | -          |  |  |  |
| <i>Scottocalanus persekans</i>                           | 8<br>(4)  | -         | -         | 7<br>(4)  | 3<br>(1)  | 3<br>(1)  | 9<br>(7)   | 6<br>(1)  | 2<br>(2)  | 8<br>(6)   | 7<br>(5)   |  |  |  |
| <i>Tortanus discaudatus</i>                              | -         | -         | -         | -         | -         | -         | -          | -         | -         | 11<br>(1)  | 27<br>(3)  |  |  |  |
| <i>Undeuchaeta bispinosa</i>                             | 7<br>(3)  | 3<br>(1)  | -         | 8<br>(3)  | 3<br>(2)  | 1<br>(1)  | 5<br>(6)   | 12<br>(1) | 1<br>(3)  | 11<br>(7)  | 5<br>(4)   |  |  |  |
| <i>Undeuchaeta plumosa</i>                               | 8<br>(3)  | 1<br>(1)  | -         | 9<br>(3)  | 3<br>(2)  | 2<br>(1)  | 1<br>(4)   | 8<br>(1)  | -         | 6<br>(1)   | -          |  |  |  |
| Order Caligoida  | 4<br>(1)  | 3<br>(1)  | -         | -         | -         | -         | <1<br>(1)  | 1<br>(1)  | 4<br>(1)  | 2<br>(1)   | 3<br>(1)   |  |  |  |
| Subclass Cirripedia<br><i>Lepos pacifica</i><br>(cypris) | -         | -         | -         | 82<br>(1) | 1<br>(1)  | 1<br>(1)  | -          | -         | -         | -          | -          |  |  |  |
| Cirripedia nauplius                                      | -         | 4<br>(1)  | -         | -         | -         | -         | -          | -         | -         | -          | 3<br>(2)   |  |  |  |
| Subclass Malacostraca<br>Order Mysidacea                 | 9<br>(1)  | -         | -         | -         | -         | 10<br>(1) | 1<br>(2)   | 3<br>(1)  | 1<br>(3)  | 2<br>(1)   | 4<br>(1)   |  |  |  |
| Order Cumacea  | -         | 1<br>(1)  | -         | -         | -         | -         | -          | -         | 53<br>(3) | 3<br>(1)   | 4<br>(2)   |  |  |  |
| Order Isopoda  | -         | -         | -         | 1<br>(1)  | -         | -         | -          | -         | -         | -          | -          |  |  |  |
| <i>Munnopsis</i> sp.                                     | -         | -         | 1<br>(2)  | -         | -         | 3<br>(1)  | 1<br>(4)   | -         | -         | -          | -          |  |  |  |
| Order Amphipoda  | -         | <1<br>(1) | -         | -         | -         | 9<br>(1)  | <1<br>(2)  | -         | 2<br>(2)  | -          | -          |  |  |  |

TRANSFECT

| TAXON                         | 1<br>(11)  | 2<br>(15) | 3<br>(4)  | 4<br>(5)  | 5<br>(3)  | 6<br>(3)  | 7<br>(11) | 8<br>(5)  | 9<br>(9)  | 10<br>(15) | 11<br>(15) |  |  |  |
|-------------------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|--|--|--|
| Suborder Hyperiidea           | 8<br>(1)   | 3<br>(2)  | <1<br>(1) | -         | -         | -         | -         | -         | <1<br>(1) | 3<br>(2)   | 2<br>(3)   |  |  |  |
| <i>Dairella californica</i>   | -          | -         | -         | -         | -         | -         | <1<br>(2) | -         | -         | 1<br>(2)   | <1<br>(1)  |  |  |  |
| <i>Eupronoe</i> sp.           | -          | 3<br>(2)  | -         | 3<br>(1)  | -         | -         | <1<br>(4) | <1<br>(1) | <1<br>(3) | 5<br>(1)   | -          |  |  |  |
| <i>Glossocephalus</i> sp.     | -          | -         | -         | -         | -         | -         | -         | -         | 1<br>(1)  | -          | -          |  |  |  |
| <i>Hyperia medusarum</i>      | <1<br>(1)  | -         | -         | 10<br>(1) | -         | <1<br>(2) | <1<br>(1) | -         | 2<br>(2)  | -          | -          |  |  |  |
| <i>Hyperoche medusarum</i>    | 1<br>(1)   | 6<br>(2)  | -         | 1<br>(1)  | -         | -         | 1<br>(3)  | <1<br>(1) | <1<br>(2) | 2<br>(1)   | 1<br>(5)   |  |  |  |
| <i>Hyperioides longipes</i>   | -          | -         | -         | -         | -         | -         | -         | <1<br>(1) | -         | -          | -          |  |  |  |
| <i>Lestrigonus</i> sp.        | -          | -         | -         | -         | -         | -         | -         | -         | -         | -          | 6<br>(1)   |  |  |  |
| <i>Lycaea</i> sp.             | -          | 3<br>(1)  | -         | -         | -         | -         | -         | -         | -         | -          | 76<br>(1)  |  |  |  |
| <i>Paraphronima gracilis</i>  | 3<br>(8)   | 2<br>(9)  | 3<br>(2)  | 3<br>(5)  | 1<br>(2)  | 2<br>(3)  | 2<br>(11) | 2<br>(4)  | 2<br>(4)  | 4<br>(9)   | 2<br>(5)   |  |  |  |
| <i>Parathemisto pacifica</i>  | 51<br>(10) | 7<br>(11) | 1<br>(2)  | 17<br>(5) | 2<br>(2)  | 6<br>(1)  | 5<br>(10) | 3<br>(4)  | 4<br>(7)  | 6<br>(8)   | 2<br>(4)   |  |  |  |
| <i>Phronima atlantica</i>     | <1<br>(1)  | <1<br>(2) | -         | -         | -         | -         | -         | -         | -         | 3<br>(1)   | -          |  |  |  |
| <i>Phronima sedentaria</i>    | 2<br>(9)   | 1<br>(10) | 3<br>(1)  | 3<br>(4)  | <1<br>(2) | -         | 2<br>(10) | 2<br>(4)  | 1<br>(7)  | 2<br>(6)   | 4<br>(3)   |  |  |  |
| <i>Phronimopsis spinifera</i> | -          | -         | -         | <1<br>(1) | -         | -         | 1<br>(3)  | 1<br>(1)  | 1<br>(2)  | -          | 2<br>(2)   |  |  |  |

Table 2 Cont.

| TAXON   | TRANSECT         |                  |                  |                  |                  |                  |                   |                  |                  |                   |                    |
|---|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|--------------------|
|   | 1<br>(11)        | 2<br>(15)        | 3<br>(4)         | 4<br>(5)         | 5<br>(3)         | 6<br>(3)         | 7<br>(11)         | 8<br>(5)         | 9<br>(9)         | 10<br>(15)        | 11<br>(15)         |
| <i>Primno macropa</i>                         | $\frac{2}{(7)}$  | $\frac{6}{(5)}$  | $\frac{1}{(1)}$  | $\frac{3}{(5)}$  | $\frac{41}{(1)}$ | $\frac{6}{(2)}$  | $\frac{2}{(10)}$  | $\frac{1}{(4)}$  | $\frac{2}{(6)}$  | $\frac{4}{(8)}$   | $\frac{3}{(6)}$    |
| <i>Pseudolycaea</i> sp.                       | -                | -                | -                | -                | $\frac{<1}{(1)}$ | -                | $\frac{1}{(3)}$   | -                | -                | -                 | -                  |
| <i>Scina borealis</i>                         | $\frac{4}{(1)}$  | -                | -                | $\frac{<1}{(1)}$ | $\frac{1}{(1)}$  | $\frac{<1}{(1)}$ | $\frac{<1}{(4)}$  | $\frac{<1}{(1)}$ | $\frac{2}{(2)}$  | $\frac{3}{(1)}$   | $\frac{4}{(1)}$    |
| <i>Thyropus</i> sp.                           | -                | $\frac{<1}{(1)}$ | -                | -                | -                | -                | -                 | -                | -                | -                 | -                  |
| <i>Tryphana</i> sp.                           | $\frac{4}{(6)}$  | $\frac{3}{(8)}$  | $\frac{6}{(1)}$  | $\frac{2}{(4)}$  | $\frac{1}{(3)}$  | $\frac{2}{(2)}$  | $\frac{3}{(9)}$   | $\frac{2}{(4)}$  | $\frac{1}{(5)}$  | $\frac{4}{(7)}$   | $\frac{2}{(5)}$    |
| <i>Vibilia armata</i>                         | $\frac{3}{(5)}$  | -                | -                | $\frac{3}{(4)}$  | $\frac{1}{(2)}$  | -                | $\frac{5}{(7)}$   | $\frac{1}{(2)}$  | $\frac{4}{(4)}$  | $\frac{5}{(7)}$   | $\frac{6}{(1)}$    |
| <i>Vibilia chuni</i>                          | $\frac{<1}{(1)}$ | -                | -                | $\frac{1}{(2)}$  | -                | -                | $\frac{4}{(4)}$   | $\frac{<1}{(1)}$ | $\frac{1}{(1)}$  | -                 | -                  |
| <i>Vibilia</i> sp.                            | -                | -                | -                | -                | -                | -                | $\frac{9}{(1)}$   | -                | -                | -                 | -                  |
| <i>Vibilia wolterecki</i>                     | $\frac{3}{(4)}$  | -                | -                | $\frac{1}{(2)}$  | $\frac{<1}{(1)}$ | -                | $\frac{1}{(2)}$   | $\frac{<1}{(1)}$ | $\frac{<1}{(1)}$ | -                 | -                  |
| <i>Streetsia challengeri</i>                  | $\frac{1}{(5)}$  | $\frac{2}{(6)}$  | $\frac{<1}{(1)}$ | $\frac{2}{(4)}$  | $\frac{<1}{(3)}$ | $\frac{1}{(3)}$  | $\frac{1}{(11)}$  | $\frac{2}{(3)}$  | $\frac{1}{(5)}$  | $\frac{2}{(5)}$   | $\frac{3}{(3)}$    |
| Order Euphausiacea                            | $\frac{21}{(7)}$ | $\frac{7}{(7)}$  | -                | $\frac{31}{(5)}$ | $\frac{3}{(1)}$  | -                | $\frac{23}{(5)}$  | $\frac{15}{(3)}$ | $\frac{15}{(4)}$ | $\frac{19}{(11)}$ | $\frac{9}{(10)}$   |
| <sup>B</sup> Euphausiacea<br><i>furcillia</i> | $\frac{8}{(1)}$  | $\frac{4}{(3)}$  | -                | $\frac{15}{(2)}$ | -                | -                | -                 | -                | $\frac{63}{(1)}$ | $\frac{7}{(4)}$   | $\frac{2005}{(2)}$ |
| Euphausiacea<br>juvenile                      | $\frac{50}{(6)}$ | $\frac{21}{(9)}$ | -                | $\frac{66}{(5)}$ | $\frac{7}{(2)}$  | $\frac{2}{(2)}$  | $\frac{30}{(10)}$ | $\frac{17}{(2)}$ | $\frac{19}{(2)}$ | $\frac{88}{(12)}$ | $\frac{89}{(11)}$  |
| <i>Euphausia gibboides</i>                    | $\frac{<1}{(1)}$ | -                | -                | -                | -                | -                | -                 | -                | -                | -                 | -                  |

TRANSECT

| TAXON   | 1<br>(11)           | 2<br>(15)         | 3<br>(4)         | 4<br>(5)          | 5<br>(3)          | 6<br>(3)         | 7<br>(11)          | 8<br>(5)         | 9<br>(9)          | 10<br>(15)         | 11<br>(15)         |  |  |  |
|---|---------------------|-------------------|------------------|-------------------|-------------------|------------------|--------------------|------------------|-------------------|--------------------|--------------------|--|--|--|
| <i>Euphausia pacifica</i>                             | $\frac{1273}{(10)}$ | $\frac{115}{(9)}$ | $\frac{24}{(3)}$ | $\frac{137}{(5)}$ | $\frac{408}{(3)}$ | $\frac{24}{(2)}$ | $\frac{122}{(10)}$ | $\frac{63}{(4)}$ | $\frac{205}{(8)}$ | $\frac{119}{(12)}$ | $\frac{221}{(10)}$ |  |  |  |
| <i>Nematoscelis<br/>difficilis</i>                    | $\frac{8}{(9)}$     | $\frac{4}{(4)}$   | $\frac{3}{(3)}$  | $\frac{19}{(4)}$  | $\frac{13}{(3)}$  | $\frac{2}{(2)}$  | $\frac{7}{(8)}$    | $\frac{2}{(3)}$  | $\frac{26}{(1)}$  | $\frac{10}{(8)}$   | $\frac{13}{(7)}$   |  |  |  |
| <i>Nyctiphanes simplex</i>                            | -                   | $\frac{18}{(1)}$  | -                | -                 | -                 | -                | -                  | -                | $\frac{<1}{(1)}$  | -                  | $\frac{6}{(2)}$    |  |  |  |
| <i>Stylocheiron affine</i>                            | $\frac{1}{(2)}$     | -                 | -                | $\frac{9}{(2)}$   | -                 | -                | $\frac{<1}{(1)}$   | -                | -                 | $\frac{2}{(3)}$    | $\frac{1}{(1)}$    |  |  |  |
| <i>Stylocheiron<br/>longicorne</i>                    | $\frac{4}{(4)}$     | $\frac{<1}{(1)}$  | -                | $\frac{10}{(2)}$  | $\frac{5}{(2)}$   | $\frac{1}{(2)}$  | $\frac{4}{(9)}$    | $\frac{2}{(3)}$  | $\frac{<1}{(1)}$  | $\frac{10}{(3)}$   | $\frac{4}{(2)}$    |  |  |  |
| <i>Stylocheiron<br/>maximum</i>                       | -                   | -                 | -                | -                 | -                 | -                | $\frac{<1}{(1)}$   | -                | -                 | -                  | -                  |  |  |  |
| <i>Stylocheiron sp.</i>                               | -                   | -                 | -                | -                 | -                 | -                | $\frac{<1}{(1)}$   | -                | -                 | -                  | -                  |  |  |  |
| <i>Thysanoessa<br/>gregaria</i>                       | $\frac{4}{(9)}$     | $\frac{2}{(7)}$   | $\frac{2}{(2)}$  | $\frac{14}{(4)}$  | $\frac{1}{(3)}$   | $\frac{1}{(2)}$  | $\frac{3}{(6)}$    | $\frac{4}{(2)}$  | $\frac{21}{(2)}$  | $\frac{6}{(6)}$    | $\frac{5}{(5)}$    |  |  |  |
| <i>Thysanoessa<br/>spinifera</i>                      | $\frac{26}{(4)}$    | $\frac{606}{(3)}$ | $\frac{3}{(1)}$  | $\frac{63}{(2)}$  | $\frac{35}{(2)}$  | $\frac{14}{(1)}$ | $\frac{26}{(3)}$   | $\frac{4}{(2)}$  | $\frac{67}{(6)}$  | $\frac{23}{(2)}$   | $\frac{21}{(4)}$   |  |  |  |
| Order Decapoda<br>Section Caridea                     | $\frac{6}{(5)}$     | $\frac{16}{(13)}$ | $\frac{1}{(3)}$  | $\frac{6}{(4)}$   | $\frac{1}{(1)}$   | $\frac{1}{(1)}$  | $\frac{3}{(5)}$    | $\frac{<1}{(1)}$ | $\frac{12}{(5)}$  | $\frac{14}{(12)}$  | $\frac{11}{(11)}$  |  |  |  |
| Section Penaeidea<br><i>Sergestes</i> spp.<br>(larva) | $\frac{21}{(9)}$    | $\frac{18}{(12)}$ | $\frac{<1}{(2)}$ | $\frac{22}{(1)}$  | $\frac{5}{(2)}$   | $\frac{1}{(1)}$  | $\frac{24}{(10)}$  | $\frac{20}{(4)}$ | $\frac{6}{(8)}$   | $\frac{8}{(7)}$    | $\frac{12}{(5)}$   |  |  |  |
| <i>Sergestes similis</i>                              | $\frac{9}{(3)}$     | -                 | $\frac{24}{(3)}$ | -                 | -                 | -                | -                  | -                | -                 | $\frac{1}{(1)}$    | $\frac{1}{(1)}$    |  |  |  |
| <i>Gemadas borealis</i>                               | -                   | -                 | -                | -                 | -                 | -                | -                  | -                | -                 | $\frac{1}{(1)}$    | -                  |  |  |  |
| Section Macrura<br><i>Callinassa</i> spp.<br>(larva)  | -                   | $\frac{3}{(1)}$   | -                | -                 | -                 | -                | -                  | -                | -                 | $\frac{164}{(4)}$  | $\frac{371}{(5)}$  |  |  |  |

Table 2 Cont.

TRANSECT

| TAXON  | 1<br>(11) | 2<br>(15) | 3<br>(4)  | 4<br>(5)  | 5<br>(3) | 6<br>(3) | 7<br>(11) | 8<br>(5) | 9<br>(9)  | 10<br>(15) | 11<br>(15) |  |  |  |
|--|-----------|-----------|-----------|-----------|----------|----------|-----------|----------|-----------|------------|------------|--|--|--|
| <i>Upogebia pugettensis</i><br>(larva)                                 | -         | -         | -         | -         | -        | -        | -         | -        | -         | 51<br>(1)  | -          |  |  |  |
| Section Anomura<br><i>Emerita analoga</i><br>(zoeal stage 3)           | -         | -         | 2<br>(2)  | 2<br>(1)  | -        | -        | -         | -        | -         | -          | -          |  |  |  |
| <i>Emerita analoga</i><br>(zoeal stage 4)                              | -         | <1<br>(2) | 1<br>(2)  | -         | -        | -        | <1<br>(2) | 1<br>(1) | -         | 2<br>(6)   | 8<br>(4)   |  |  |  |
| <i>Emerita analoga</i><br>(zoeal stage 5)                              | -         | 1<br>(4)  | 1<br>(2)  | <1<br>(2) | -        | -        | <1<br>(1) | 1<br>(1) | 1<br>(4)  | 3<br>(8)   | 1<br>(6)   |  |  |  |
| Galatheididae<br>(larva)   | -         | -         | -         | -         | -        | -        | -         | -        | -         | 4<br>(1)   | -          |  |  |  |
| Lithodidae<br>(larva)  | 3<br>(5)  | 2<br>(4)  | <1<br>(1) | 12<br>(2) | -        | -        | <1<br>(3) | 3<br>(2) | -         | 1<br>(1)   | -          |  |  |  |
| Paguridae<br>(larva)   | -         | -         | -         | -         | -        | -        | -         | -        | 11<br>(3) | 10<br>(3)  | 36<br>(4)  |  |  |  |
| Porcellanidae<br>(larva)   | -         | -         | -         | -         | -        | -        | -         | -        | 2<br>(2)  | 7<br>(1)   | 55<br>(1)  |  |  |  |
| β Section Brachyura<br><i>Cancer antennarius</i><br>(zoeal stages 2,3) | -         | -         | -         | -         | -        | -        | -         | -        | -         | 12<br>(3)  | 118<br>(6) |  |  |  |
| <i>Cancer antennarius</i><br>(zoeal stages 4,5)                        | -         | -         | -         | -         | -        | -        | 1<br>(1)  | -        | 3<br>(2)  | 39<br>(4)  | 21<br>(6)  |  |  |  |
| <i>Cancer antennarius</i><br>(megalopa)                                | -         | -         | -         | -         | -        | -        | 1<br>(1)  | -        | 7<br>(4)  | 29<br>(3)  | 7<br>(5)   |  |  |  |
| β <i>Cancer antennarius/</i><br><i>gracilis</i><br>(zoeal stage 1)     | -         | -         | -         | -         | -        | -        | -         | -        | -         | 1<br>(1)   | 697<br>(3) |  |  |  |
| <i>Cancer anthonyi</i><br>(zoeal stages 1,2,3)                         | -         | -         | -         | -         | -        | -        | -         | -        | -         | 1<br>(1)   | -          |  |  |  |
| <i>Cancer anthonyi</i><br>(zoeal stages 4,5)                           | -         | -         | -         | -         | -        | -        | -         | -        | -         | 1<br>(1)   | 1<br>(2)   |  |  |  |

TRANSECT

| TAXON   | $\frac{1}{(11)}$ | $\frac{2}{(15)}$ | $\frac{3}{(4)}$ | $\frac{4}{(5)}$ | $\frac{5}{(3)}$ | $\frac{6}{(3)}$ | $\frac{7}{(11)}$ | $\frac{8}{(5)}$ | $\frac{9}{(9)}$  | $\frac{10}{(15)}$ | $\frac{11}{(15)}$ |  |  |  |
|---|------------------|------------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|------------------|-------------------|-------------------|--|--|--|
| <i>Cancer anthonyi</i><br>(megalopa)                      | -                | -                | -               | -               | -               | -               | -                | -               | -                | -                 | $\frac{1}{(1)}$   |  |  |  |
| <i>Cancer gracilis</i><br>(larva)                         | -                | $\frac{1}{(1)}$  | -               | -               | -               | -               | -                | -               | -                | $\frac{1}{(1)}$   | -                 |  |  |  |
| <sup>B</sup> <i>Cancer gracilis</i><br>(zoeal stages 2,3) | -                | -                | -               | -               | -               | -               | $\frac{1}{(1)}$  | -               | -                | $\frac{6}{(3)}$   | $\frac{12}{(6)}$  |  |  |  |
| <i>Cancer gracilis</i><br>(zoeal stages 4,5)              | -                | $\frac{1}{(1)}$  | -               | -               | -               | -               | $\frac{1}{(1)}$  | -               | $\frac{21}{(2)}$ | $\frac{25}{(3)}$  | $\frac{11}{(9)}$  |  |  |  |
| <i>Cancer gracilis</i><br>(megalopa)                      | -                | $\frac{1}{(1)}$  | -               | $\frac{1}{(1)}$ | $\frac{1}{(1)}$ | -               | $\frac{1}{(2)}$  | $\frac{1}{(1)}$ | $\frac{2}{(2)}$  | $\frac{1}{(5)}$   | $\frac{8}{(8)}$   |  |  |  |
| <i>Cancer magister</i><br>(zoeal stage 1)                 | -                | -                | $\frac{1}{(2)}$ | -               | -               | -               | -                | -               | $\frac{1}{(1)}$  | -                 | $\frac{1}{(2)}$   |  |  |  |
| <i>Cancer magister</i><br>(zoeal stage 2)                 | $\frac{1}{(1)}$  | $\frac{1}{(1)}$  | $\frac{2}{(2)}$ | -               | -               | -               | -                | -               | -                | $\frac{1}{(1)}$   | -                 |  |  |  |
| <i>Cancer magister</i><br>(zoeal stage 3)                 | $\frac{1}{(3)}$  | $\frac{3}{(6)}$  | $\frac{2}{(1)}$ | $\frac{1}{(3)}$ | -               | -               | $\frac{1}{(1)}$  | $\frac{2}{(1)}$ | -                | $\frac{1}{(1)}$   | $\frac{1}{(1)}$   |  |  |  |
| <i>Cancer magister</i><br>(zoeal stage 4)                 | $\frac{1}{(3)}$  | $\frac{1}{(4)}$  | $\frac{1}{(1)}$ | $\frac{1}{(1)}$ | -               | -               | $\frac{1}{(2)}$  | $\frac{1}{(2)}$ | $\frac{1}{(2)}$  | $\frac{1}{(4)}$   | $\frac{2}{(2)}$   |  |  |  |
| <i>Cancer magister</i><br>(zoeal stage 5)                 | $\frac{2}{(10)}$ | $\frac{2}{(7)}$  | -               | $\frac{2}{(4)}$ | $\frac{2}{(1)}$ | -               | $\frac{2}{(8)}$  | $\frac{3}{(2)}$ | $\frac{1}{(3)}$  | $\frac{2}{(5)}$   | $\frac{1}{(4)}$   |  |  |  |
| <i>Cancer magister</i><br>(megalopa)                      | $\frac{1}{(1)}$  | $\frac{1}{(1)}$  | -               | $\frac{1}{(2)}$ | -               | -               | -                | -               | -                | -                 | -                 |  |  |  |
| <i>Cancer oregonensis</i><br>(zoeal stages 1,2,3)         | $\frac{1}{(5)}$  | $\frac{1}{(6)}$  | $\frac{1}{(4)}$ | $\frac{1}{(2)}$ | $\frac{1}{(1)}$ | -               | $\frac{49}{(5)}$ | $\frac{1}{(1)}$ | $\frac{2}{(1)}$  | $\frac{13}{(3)}$  | $\frac{10}{(8)}$  |  |  |  |
| <i>Cancer oregonensis</i><br>(zoeal stages 4,5)           | $\frac{1}{(4)}$  | $\frac{1}{(7)}$  | -               | -               | -               | -               | $\frac{3}{(4)}$  | $\frac{2}{(1)}$ | $\frac{4}{(6)}$  | $\frac{5}{(8)}$   | $\frac{3}{(9)}$   |  |  |  |
| <i>Cancer oregonensis</i><br>(megalopa)                   | $\frac{1}{(1)}$  | $\frac{1}{(2)}$  | $\frac{1}{(1)}$ | -               | -               | -               | $\frac{1}{(2)}$  | -               | $\frac{1}{(1)}$  | $\frac{2}{(3)}$   | -                 |  |  |  |

Table 2 Cont.

TRANSECT

| TAXON   | $\frac{1}{(11)}$ | $\frac{2}{(15)}$ | $\frac{3}{(4)}$ | $\frac{4}{(5)}$ | $\frac{5}{(3)}$ | $\frac{6}{(3)}$ | $\frac{7}{(11)}$ | $\frac{8}{(5)}$ | $\frac{9}{(9)}$ | $\frac{10}{(15)}$ | $\frac{11}{(15)}$ |  |  |  |
|---|------------------|------------------|-----------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|-------------------|-------------------|--|--|--|
| <i>Cancer productus</i><br>(zoeal stages 1,2,3) | -                | $\frac{1}{(1)}$  | -               | $\frac{1}{(1)}$ | -               | -               | $\frac{12}{(2)}$ | -               | $\frac{7}{(2)}$ | $\frac{2}{(6)}$   | $\frac{6}{(13)}$  |  |  |  |
| <i>Cancer productus</i><br>(zoeal stages 4,5)   | -                | $\frac{1}{(1)}$  | -               | $\frac{1}{(2)}$ | -               | -               | $\frac{1}{(2)}$  | -               | $\frac{2}{(4)}$ | $\frac{8}{(4)}$   | $\frac{4}{(6)}$   |  |  |  |
| <i>Cancer productus</i><br>(megalopa)           | -                | -                | -               | -               | -               | -               | -                | -               | $\frac{1}{(3)}$ | $\frac{1}{(2)}$   | $\frac{1}{(2)}$   |  |  |  |
| <i>Cancer sp. A</i><br>(zoeal stages 1,2,3)     | -                | -                | -               | -               | -               | -               | $\frac{8}{(1)}$  | -               | $\frac{1}{(1)}$ | $\frac{3}{(3)}$   | $\frac{1}{(5)}$   |  |  |  |
| <i>Cancer sp. A</i><br>(zoeal stages 4,5)       | -                | -                | -               | -               | -               | -               | $\frac{1}{(2)}$  | -               | $\frac{1}{(3)}$ | $\frac{1}{(7)}$   | $\frac{3}{(6)}$   |  |  |  |
| <i>Cancer sp. A</i><br>(megalopa)               | $\frac{1}{(3)}$  | -                | -               | -               | -               | -               | $\frac{1}{(1)}$  | $\frac{1}{(1)}$ | $\frac{1}{(5)}$ | $\frac{1}{(10)}$  | $\frac{2}{(5)}$   |  |  |  |
| <i>Cancer sp. B</i><br>(zoeal stages 1,2,3)     | -                | $\frac{1}{(1)}$  | -               | -               | -               | -               | $\frac{67}{(1)}$ | -               | $\frac{3}{(2)}$ | $\frac{3}{(2)}$   | $\frac{8}{(6)}$   |  |  |  |
| <i>Cancer sp. B</i><br>(zoeal stages 4,5)       | $\frac{1}{(1)}$  | -                | -               | -               | -               | -               | $\frac{1}{(1)}$  | -               | $\frac{2}{(2)}$ | $\frac{1}{(1)}$   | $\frac{1}{(3)}$   |  |  |  |
| Grapsidae                                       | -                | -                | -               | -               | -               | -               | $\frac{1}{(1)}$  | -               | $\frac{7}{(2)}$ | -                 | $\frac{3}{(2)}$   |  |  |  |
| <sup>B</sup> Grapsidae<br>(zoeal stages 1,2,3)  | -                | -                | -               | -               | -               | -               | -                | -               | -               | $\frac{1}{(1)}$   | $\frac{28}{(4)}$  |  |  |  |
| Grapsidae<br>(zoeal stages 4,5)                 | -                | -                | -               | -               | -               | -               | -                | -               | -               | $\frac{1}{(1)}$   | $\frac{4}{(4)}$   |  |  |  |
| <i>Hemigrapsus oregonensis</i><br>(megalopa)    | -                | -                | -               | -               | -               | -               | -                | -               | $\frac{4}{(1)}$ | -                 | -                 |  |  |  |
| Majidae<br>(zoeal stage 1)                      | -                | $\frac{2}{(2)}$  | $\frac{1}{(3)}$ | $\frac{1}{(2)}$ | $\frac{1}{(2)}$ | $\frac{1}{(1)}$ | $\frac{20}{(4)}$ | -               | $\frac{1}{(4)}$ | $\frac{2}{(7)}$   | $\frac{19}{(5)}$  |  |  |  |
| Majidae<br>(zoeal stage 2)                      | -                | $\frac{1}{(4)}$  | $\frac{1}{(1)}$ | $\frac{1}{(1)}$ | $\frac{1}{(1)}$ | -               | $\frac{22}{(2)}$ | -               | $\frac{2}{(3)}$ | $\frac{11}{(3)}$  | $\frac{13}{(8)}$  |  |  |  |



TRANSECT

| TAXON  | $\frac{1}{(11)}$ | $\frac{2}{(15)}$ | $\frac{3}{(4)}$  | $\frac{4}{(5)}$ | $\frac{5}{(3)}$ | $\frac{6}{(3)}$ | $\frac{7}{(11)}$ | $\frac{8}{(5)}$ | $\frac{9}{(9)}$ | $\frac{10}{(15)}$  | $\frac{11}{(15)}$   |  |  |  |
|--|------------------|------------------|------------------|-----------------|-----------------|-----------------|------------------|-----------------|-----------------|--------------------|---------------------|--|--|--|
| Majidae<br>(megalopa)                              | $\frac{1}{(1)}$  | $\frac{1}{(3)}$  | $\frac{1}{(1)}$  | $\frac{1}{(1)}$ | -               | $\frac{1}{(1)}$ | $\frac{1}{(2)}$  | -               | $\frac{4}{(3)}$ | $\frac{8}{(4)}$    | $\frac{11}{(11)}$   |  |  |  |
| <i>Chionoecetes tanneri</i><br>(zoeal stage 1)     | $\frac{3}{(5)}$  | $\frac{2}{(6)}$  | $\frac{1}{(2)}$  | $\frac{1}{(1)}$ | $\frac{2}{(1)}$ | $\frac{1}{(2)}$ | $\frac{1}{(2)}$  | $\frac{1}{(1)}$ | -               | $\frac{1}{(2)}$    | $\frac{1}{(2)}$     |  |  |  |
| <i>Chionoecetes tanneri</i><br>(zoeal stage 2)     | $\frac{2}{(1)}$  | $\frac{2}{(3)}$  | -                | -               | -               | -               | -                | $\frac{1}{(2)}$ | -               | $\frac{2}{(5)}$    | $\frac{1}{(3)}$     |  |  |  |
| <i>Chionoecetes tanneri</i><br>(megalopa)          | -                | $\frac{1}{(1)}$  | -                | $\frac{1}{(2)}$ | -               | -               | $\frac{1}{(1)}$  | $\frac{1}{(1)}$ | $\frac{1}{(1)}$ | $\frac{1}{(2)}$    | $\frac{1}{(1)}$     |  |  |  |
| <i>Oregonia gracilis</i><br>(zoeal stage 1)        | -                | $\frac{3}{(1)}$  | -                | -               | -               | -               | $\frac{1}{(1)}$  | -               | -               | -                  | -                   |  |  |  |
| Pinnotheridae                                      | -                | -                | $<\frac{1}{(1)}$ | -               | -               | -               | -                | -               | -               | -                  | -                   |  |  |  |
| <i>Opisthopus transversus</i>                      | -                | -                | -                | -               | -               | -               | -                | -               | $\frac{1}{(1)}$ | -                  | -                   |  |  |  |
| <i>Pinnotheres</i> sp.<br>(megalopa)               | -                | -                | -                | -               | -               | -               | -                | -               | -               | $\frac{1}{(1)}$    | -                   |  |  |  |
| <sup>B</sup> Pinnotheridae<br>(zoeal stages 1,2,3) | -                | $\frac{1}{(2)}$  | -                | -               | -               | -               | $\frac{1}{(1)}$  | -               | $\frac{1}{(1)}$ | $\frac{1367}{(4)}$ | $\frac{11918}{(6)}$ |  |  |  |
| Pinnotheridae<br>(zoeal stages 4,5)                | -                | $\frac{1}{(3)}$  | -                | -               | -               | -               | -                | -               | $\frac{5}{(2)}$ | $\frac{649}{(5)}$  | $\frac{508}{(6)}$   |  |  |  |
| Pinnotheridae<br>(megalopa)                        | -                | -                | -                | -               | -               | -               | $\frac{1}{(1)}$  | -               | $\frac{4}{(3)}$ | $\frac{1}{(2)}$    | $\frac{2}{(2)}$     |  |  |  |
| Xanthidae<br>(zoeal stages 1,2)                    | -                | -                | -                | -               | -               | -               | $\frac{2}{(1)}$  | -               | $\frac{1}{(1)}$ | $\frac{2}{(2)}$    | $\frac{12}{(2)}$    |  |  |  |
| Xanthidae<br>(zoeal stages 3,4,5)                  | -                | -                | -                | -               | -               | -               | -                | -               | -               | $\frac{1}{(2)}$    | -                   |  |  |  |
| *  | *                | *                | *                | *               | *               | *               | *                | *               | *               | *                  | *                   |  |  |  |

Table 2 Cont..

## TRANSECT

| TAXON  | 1<br>(11)  | 2<br>(15)   | 3<br>(4) | 4<br>(5)   | 5<br>(3)  | 6<br>(3)  | 7<br>(11)   | 8<br>(5)   | 9<br>(9)   | 10<br>(15)  | 11<br>(15)  |  |  |  |
|--|------------|-------------|----------|------------|-----------|-----------|-------------|------------|------------|-------------|-------------|--|--|--|
| PHYLUM Phoronida<br>actinotroch larva                      | -          | -           | -        | -          | -         | -         | -           | -          | 20<br>(1)  | -           | 3<br>(1)    |  |  |  |
| *  | *          | *           | *        | *          | *         | *         | *           | *          | *          | *           | *           |  |  |  |
| PHYLUM Echinodermata<br>bipinnaria larva                   | 6<br>(5)   | 2<br>(4)    | -        | 4<br>(4)   | -         | 1<br>(1)  | 8<br>(5)    | 6<br>(3)   | 4<br>(4)   | 13<br>(7)   | 12<br>(6)   |  |  |  |
| brachiolaria larva   | -          | -           | -        | -          | -         | -         | -           | -          | -          | -           | 4<br>(1)    |  |  |  |
| *  | *          | *           | *        | *          | *         | *         | *           | *          | *          | *           | *           |  |  |  |
| PHYLUM Chordata<br>Subphylum Urochordata<br>Class Larvacea | 19<br>(3)  | 9<br>(3)    | 4<br>(4) | 9<br>(3)   | 16<br>(2) | 11<br>(2) | 6<br>(5)    | -          | 10<br>(4)  | 19<br>(5)   | 238<br>(6)  |  |  |  |
| Class Thaliacea  | -          | 2<br>(2)    | 3<br>(3) | 2<br>(2)   | 1<br>(2)  | -         | 11<br>(6)   | 1<br>(2)   | -          | 22<br>(2)   | -           |  |  |  |
| <i>Cyclosalpa bakeri</i>                                   | -          | -           | -        | -          | -         | -         | -           | -          | -          | -           | <1<br>(1)   |  |  |  |
| <i>Dolioletta<br/>gegenbauri</i>                           | 204<br>(9) | 140<br>(14) | 5<br>(4) | 207<br>(5) | 4<br>(3)  | 11<br>(3) | 310<br>(11) | 100<br>(4) | 200<br>(7) | 344<br>(12) | 367<br>(11) |  |  |  |
| <i>Iasis zonaria</i>                                       | 5<br>(1)   | -           | -        | <1<br>(1)  | -         | -         | 3<br>(1)    | -          | <1<br>(1)  | 2<br>(2)    | -           |  |  |  |
| <sup>α</sup> <i>Pegea confederata</i>                      | -          | -           | -        | -          | 1<br>(1)  | -         | 21<br>(1)   | -          | -          | -           | -           |  |  |  |
| <i>Pyrosoma atlanticum</i>                                 | <1<br>(1)  | <1<br>(2)   | -        | 1<br>(1)   | <1<br>(1) | -         | <1<br>(1)   | -          | 1<br>(2)   | 2<br>(7)    | 2<br>(4)    |  |  |  |
| <sup>α</sup> <i>Ritteriella picteti</i>                    | -          | -           | -        | -          | -         | -         | -           | -          | -          | <1<br>(1)   | -           |  |  |  |
| <i>Salpa fusiformis</i>                                    | 5<br>(3)   | 8<br>(4)    | -        | 8<br>(4)   | 4<br>(2)  | -         | 198<br>(5)  | 2<br>(2)   | 15<br>(4)  | 3<br>(6)    | 5<br>(4)    |  |  |  |

TRANSECT

| TAXON                                  | 1<br>(11)  | 2<br>(15)  | 3<br>(4)  | 4<br>(5)  | 5<br>(3)  | 6<br>(5)  | 7<br>(11)  | 8<br>(5)  | 9<br>(9)  | 10<br>(15) | 11<br>(15)  |  |  |  |
|--|------------|------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|------------|-------------|--|--|--|
| PHYLUM Chaetognatha                    | 6<br>(9)   | 4<br>(14)  | 2<br>(3)  | 8<br>(5)  | 9<br>(1)  | 11<br>(2) | 5<br>(5)   | 5<br>(2)  | 2<br>(3)  | 5<br>(13)  | 87<br>(7)   |  |  |  |
| Juvenile                               | -          | 1<br>(3)   | -         | -         | -         | -         | 2<br>(1)   | -         | -         | 5<br>(3)   | 4<br>(1)    |  |  |  |
| <i>Eukrohnia hamata</i>                | 35<br>(11) | 23<br>(12) | 3<br>(2)  | 11<br>(4) | 1<br>(3)  | 21<br>(2) | 7<br>(9)   | 8<br>(3)  | -         | 1<br>(5)   | 2<br>(1)    |  |  |  |
| <i>Krohnia subtilis</i>                | 13<br>(1)  | 2<br>(2)   | -         | -         | -         | -         | -          | -         | -         | 1<br>(1)   | -           |  |  |  |
| <i>Sagitta bieri</i>                   | 2<br>(1)   | 3<br>(1)   | -         | -         | -         | -         | -          | -         | -         | -          | -           |  |  |  |
| <i>Sagitta decipiens</i>               | 17<br>(11) | 14<br>(13) | 16<br>(3) | 44<br>(5) | 14<br>(3) | 50<br>(3) | 24<br>(11) | 40<br>(4) | 11<br>(4) | 8<br>(12)  | 14<br>(13)  |  |  |  |
| <i>Sagitta enflata</i>                 | 2<br>(2)   | 1<br>(2)   | -         | 2<br>(2)  | -         | -         | 2<br>(5)   | 1<br>(1)  | -         | 2<br>(11)  | 3<br>(9)    |  |  |  |
| <sup>β</sup> <i>Sagitta euneritica</i> | 25<br>(11) | 16<br>(12) | 16<br>(4) | 3<br>(4)  | 4<br>(2)  | 13<br>(3) | 7<br>(11)  | 16<br>(4) | 7<br>(7)  | 9<br>(14)  | 289<br>(12) |  |  |  |
| <i>Sagitta hexaptera</i>               | -          | -          | -         | -         | <1<br>(1) | -         | -          | -         | -         | 1<br>(4)   | -           |  |  |  |
| <i>Sagitta maxima</i>                  | -          | -          | 1<br>(1)  | -         | -         | -         | -          | -         | -         | -          | -           |  |  |  |
| <sup>β</sup> <i>Sagitta minima</i>     | 1<br>(1)   | 2<br>(2)   | -         | -         | -         | -         | <1<br>(1)  | -         | -         | -          | -           |  |  |  |
| <i>Sagitta scrippsae</i>               | 13<br>(11) | 12<br>(13) | 2<br>(3)  | 10<br>(4) | 4<br>(2)  | 14<br>(3) | 10<br>(11) | 10<br>(4) | 5<br>(7)  | 3<br>(8)   | 4<br>(6)    |  |  |  |
| <i>Sagitta zetesios</i>                | -          | -          | -         | -         | -         | 1<br>(1)  | 1<br>(2)   | -         | -         | -          | -           |  |  |  |
| *                                      | *          | *          | *         | *         | *         | *         | *          | *         | *         | *          | *           |  |  |  |